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DIRECTORY OF ORGANIZATION AND ACTIVITIES

OF THE
CANADA DEPARTMENT OF AGRICULTURE

[Revised January
1952]



Published by authority of the Right Hon. James G. Gardiner, Minister of Agriculture,
Ottawa, Canada

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CONTENTS


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OF THE

CANADA DEPARTMENT OF AGRICULTURE



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INTRODUCTION

At present the Department of Agriculture is constituted on the basis of six subdivisions, Administration Service, Science Service, Experimental Farms Service, Production Service, Marketing Service and Special Act Administrations. This arrangement, which was brought about in 1937, carries out the principle of bringing under one administrative head activities similar in character and purpose in the broad fields of work with respect to experimental and scientific investigations in connection with production and marketing of agricultural products; as well as rehabilitation and assistance programs.

ADMINISTRATION SERVICE

HEADQUARTERS—CONFEDERATION BUILDING, OTTAWA

DEPUTY MINISTER—DR. J. G. TAGGART

The general administration of the Department is under the direction of the Deputy Minister. Responsible to him for the operation of their own staffs are the Directors of Science Service, Experimental Farms Service, Production Service, and Marketing Service. In carrying out the daily administrative tasks the Deputy Minister has his own personal staff and the assistance of two organizations which service the whole Department as follows:

Deputy Minister.....	Dr. J. G. Taggart
Assistant Deputy Minister.....	Dr. J. G. Bouchard
General Executive Assistant.....	A. L. Stevenson

ADMINISTRATIVE SERVICES

These Services comprise five units: Departmental Secretary; Organization and Personnel; Office Services; Stationery and Supplies; and Supervision of Race Track Betting. The Departmental Secretary deals with correspondence from the Department and the public. The Organization and Personnel unit handles all matters respecting assignment, promotion, reclassification, and release of employees. Studies are also made by this unit in co-operation with heads of Services regarding procedures and organization methods in dealing with personnel matters. The Office Services unit supplies centralized services to the Department such as the assembling and submission of the Estimates, automobile and journal subscription cost records, travel warrants, reservations, and accounting for Administration Service. The purchasing of stationery, furniture, and general supplies of certain kinds for the whole Department is centralized in the Stationery and Supplies unit. The Supervisor of Race Track Betting supervises the parimutuel betting on race tracks generally and frames regulations to ensure that the provisions of the criminal code regarding horse racing have been met.

Director.....	H. L. Trueman
Chief, Organization and Personnel.....	R. J. Groves
Assistant Chief.....	B. M. Sands
Departmental Secretary.....	D. M. Allan
Chief, Office Services.....	W. D. Goold
Assistant Chief.....	J. B. Archambault
Chief, Stationery and Supplies.....	D. L. Burgess
Assistant Chief.....	J. W. Martin
Chief Supervisor, Race Track Betting.....	J. D. Higginson

INFORMATION SERVICE

Information Service operates in two divisions. The Press, Radio, Film, and Exhibits unit prepares information for distribution through the farm press, the daily and weekly press, and radio stations; supervises the making of motion pictures and film strips; and prepares educational displays for regional and national fairs and exhibitions. The Publications and Library unit edits and distributes bulletins, reports and leaflets; and maintains a comprehensive agricultural library for the use of departmental staff and others.

Director.....	S. R. N. Hodgins
Chief Information Officer.....	R. S. Mackay
Information Officer (Radio, Films).....	P. Gormley
Information Officer (English Press).....	J. R. Peet
Information Officer (French Press).....	L. Arsenaault
Supervisor, Exhibits.....	H. S. Tewsley
Photographer.....	F. Tyrell
Chief Editor.....	J. S. McGiffin
Departmental Librarian.....	Mrs. M. N. Reynolds
Editor.....	C. H. Kenney
Editor.....	Miss V. M. Ross
Editor.....	Dr. A. J. W. Dyck
Artist.....	G. M. Trottier
Supervisor, Processing and Distribution.....	N. H. Thompson

SCIENCE SERVICE

HEADQUARTERS: SCIENCE SERVICE BUILDING, OTTAWA

DIRECTOR—DR. K. W. NEATBY

Science Service includes the Divisions of Administration, Animal Pathology, Bacteriology and Dairy Research, Botany and Plant Pathology, Chemistry, Entomology, Forest Biology, and Plant Protection.

The work of the Service is directed toward the solution of practical problems of agriculture, through the application of the results of scientific investigations. It deals with problems relating to insect pests and diseases affecting plants and animals, the deterioration of plant and animal products through invasion of micro-organisms, the nutritional requirements of animals and plants, and the chemistry and microbiology of soils and dairy products. The work is carried on at the Ottawa headquarters laboratories and at national, regional and field laboratories distributed throughout the country. Activities of Science Service are co-ordinated with those of other services of the department as well as with the research work undertaken by the National Research Council and by universities and agricultural colleges.

ADMINISTRATION DIVISION

The Administration Division looks after the business management of the Service. It assumes responsibility for the design and construction of buildings and for the local administration of large laboratories that house staffs of more than one division. In addition, it includes an art and photography unit and a statistical research laboratory.

SCIENCE SERVICE ADMINISTRATION AND LABORATORIES IN OTTAWA AND HULL

*Science Service Building, Carling Avenue, Ottawa, Ontario**

Director.....	Dr. K. W. Neatby
Associate Director.....	Dr. W. E. van Steenburg

Administration

Central Office

Assistant to Director.....	W. B. Brittain
Accountant.....	D. P. Nigra
Art and Photography.....	L. B. Jameson
Personnel Officer.....	H. W. LeRoy

Statistical Research and Service

Senior Biometrician.....	G. B. Oakland
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*Regional Research Adviser (Prairie Provinces), Laboratory of Plant Pathology,
University of Manitoba, Winnipeg, Manitoba.....*Dr. W. F. Hanna

National Laboratory

Science Service Laboratory, University Sub Post Office, London, Ontario.

Director.....	Dr. H. Martin
Administrative Officer.....	J. A. Boyle

**

Regional Laboratories

Science Service Laboratories, Box 270, Lethbridge, Alberta.

Director.....	Dr. W. C. Broadfoot
Administrative Officer.....	F. G. Wagner

*Address for all offices unless otherwise indicated.

**Research staff listed under London, Ontario.

***Research staff listed under Lethbridge, Alberta.

ANIMAL PATHOLOGY DIVISION

This division conducts research and experimental studies relating to animal diseases, engages in the manufacture of biological products (prophylactic and diagnostic) and related investigations, performs laboratory diagnosis relative to infectious and non-infectious disease; also general laboratory services.

(Animal Diseases Research Institute, Hull, Quebec.)

Chief of Division.....	Dr. C. A. Mitchell
Administrative Officer.....	J. C. Moffatt
Principal Animal Pathologist (Swine and Poultry Diseases).....	Dr. R. Gwatkin
Principal Research Officer (Serology Research).....	Dr. Christine E. Rice
Senior Animal Pathologist (Histopathology).....	Dr. P. J. G. Plummer
Senior Animal Pathologist (Virus diseases).....	Dr. R. V. L. Walker
Senior Animal Pathologist (Biological Products).....	Dr. H. Konst
Research Officer..... (Bacteriology).....	J. L. Byrne
Biochemist.....	Dr. E. Annau
Associate Animal Pathologist (Brucellosis Research).....	Dr. T. Moore
Associate Animal Pathologist (Serology—Routine).....	Dr. C. Mackie
Associate Animal Pathologist (Serology—Research).....	Dr. P. Boulanger
Associate Animal Pathologist.....	Dr. G. R. Carter
Assistant Animal Pathologist.....	Dr. J. W. Pullin
Associate Animal Pathologist.....	Dr. R. J. Avery
Associate Animal Pathologist.....	Dr. A. S. Greig
Associate Animal Pathologist.....	Dr. P. D. McKercher
Technical Officer.....	Miss E. F. Whitney
Technical Officer.....	Miss E. L. Dzenis

BACTERIOLOGY AND DAIRY RESEARCH DIVISION

This division conducts research in the fields of dairying, food and soil microbiology, and general agricultural bacteriology. Major attention is given to the improvement of quality in milk, butter and cheese, to problems of food preservation, and to fundamental studies on soil micro-organisms in connection with soil fertility and soil-borne plant diseases.

Direct services include the bacteriological analysis of samples submitted by other divisions and the preparation of seed inoculants for departmental

projects. Control work involves the determination of quality of products within the scope of Acts and Regulations administered by the Department.

Chief of Division.....	Dr. A. G. Lochhead
Senior Bacteriologist..... (Foods, Dairying).....	Dr. C. K. Johns
Senior Bacteriologist..... (General Bacteriology).....	Dr. H. Katznelson
Head, Dairy Research.....	Dr. E. G. Hood
Senior Bacteriologist..... (Soils).....	Dr. M. I. Timonin
Bacteriologist..... (Dairy Technology).....	A. H. White
Bacteriologist..... (Foods).....	Dr. A. H. Jones
Associate Bacteriologist..... (Antibiotics).....	G. B. Landerkin
Associate Bacteriologist..... (General Bacteriology).....	Dr. C. E. Chaplin
Associate Bacteriologist..... (Physiology).....	Dr. J. Robinson
Assistant Bacteriologist..... (Soils).....	R. H. Thexton
Assistant Bacteriologist..... (Vitamins).....	Miss M. O. Burton
Assistant Bacteriologist..... (Dairy Research).....	K. N. Smith
Assistant Bacteriologist..... (Foods).....	W. E. Ferguson
Assistant Bacteriologist..... (Soils).....	I. L. Stevenson
Assistant Bacteriologist..... (Foods).....	T. W. Humphreys
Assistant Bacteriologist..... (Antibiotics).....	C. K. Hannan

BOTANY AND PLANT PATHOLOGY DIVISION

The activities of this division cover two main phases, Economic and General Botany, and Plant Pathology and Mycology.

The work in plant pathology includes research, experimental and administrative activities in connection with diseases affecting agricultural and horticultural crops. The investigations involve the nature and cause of the various diseases, their effects on the plants attacked, and methods for their control, including co-operation with plant breeders in the production of disease-resistant varieties. Intimately related to the plant pathological work are the mycological investigations, the plant disease survey, and the maintenance of the National Mycological Herbarium. Special emphasis is placed on diseases of major economic importance.

The botanical work is concerned with the maintenance and development of the Dominion Arboretum and Botanic Garden; the development of a plant introduction service through a world-wide seed exchange; investigations on the taxonomy and floristics of native and introduced plants (including the maintenance of a large herbarium); the identification of plants for specialists and the general public; investigations on the distribution and life histories of Canadian weeds and poisonous plants (through the Canadian Weed Survey); studies in cytogenetics; and research in plant physiology with special reference to herbicides and to methods of measuring photosynthetic rates.

Chief of Division.....	Dr. J. H. Craigie
Assistant Chief of Division.....	Dr. F. L. Drayton
Administrative Officer.....	Vacant
Librarian.....	Miss D. H. Luke
Head, Botany Unit.....	Dr. H. A. Senn
Senior Botanist..... (Plant Taxonomy).....	Dr. W. G. Dore
Senior Botanist..... (Plant Taxonomy).....	Dr. B. Boivin
Botanist..... (Plant Physiology).....	Vacant
Botanist..... (Weed Investigations).....	Dr. C. Frankton
Associate Botanist..... (Plant Physiology).....	V. A. Helson
Associate Botanist..... (Cytogenetics).....	Dr. R. J. Moore
Associate Botanist..... (Cytogenetics).....	Dr. W. M. Bowden
Associate Botanist..... (Secretary, National Weed Committee).....	E. G. Anderson
Assistant Botanist..... (Plant Taxonomy).....	J. A. Calder
Assistant Botanist..... (Plant Taxonomy).....	J. M. Gillett
Assistant Botanist..... (Plant Taxonomy).....	W. J. Cody
Assistant Botanist..... (Weed Investigations).....	K. K. Bragg
Assistant Botanist..... (Weed Investigations).....	I. J. Bassett
Assistant Botanist..... (Weed Investigations).....	D. R. Lindsay
Assistant Botanist..... (Dominion Arboretum).....	A. R. T. Buckley

Assistant Botanist.....	(Plant Taxonomy).....	H. L. J. Rhodes
Assistant Botanist.....	(Plant Physiology).....	Miss W. C. G. Bennett
Head, Mycology Unit.....		Dr. J. W. Groves
Mycologist.....	(Mycology and Plant Disease Survey).....	I. L. Conners
Mycologist.....	(Fungus Taxonomy).....	Dr. Ruth Macrae
Mycologist.....	(Forest Mycology).....	Dr. Mildred K. Nobles
Associate Mycologist.....	(Fungus Taxonomy and Plant Disease Survey).....	Dr. D. B. O. Savile
Assistant Mycologist.....	(Forest Mycology).....	Miss Shelagh Gibson
Assistant Mycologist.....	(Fungus Taxonomy).....	Miss R. M. Horner
Assistant Mycologist.....	(Fungus Taxonomy).....	Miss C. A. Loveland
Assistant Mycologist.....	(Fungus Taxonomy).....	J. A. Parmelee
Assistant Mycologist.....	(Forest Mycology).....	Miss D. Wells
Assistant Mycologist.....	(Fungus Taxonomy).....	Miss M. S. Moss
Assistant Mycologist.....	(Forest Mycology).....	Miss M. B. Maxwell
Assistant Plant Pathologist..	(Diseases of Ornamental Plants).....	H. S. Thompson
Plant Pathologist.....	(Diseases of Fruits and Vegetables).....	H. N. Racicot
Associate Plant Pathologist..	(Diseases of Vegetables).....	K. M. Graham
Assistant Plant Pathologist..	(Potato Diseases).....	D. S. MacLachlan
Assistant Plant Pathologist..	(Diseases of Small Fruits).....	A. T. Bolton
Assistant Plant Pathologist..	(Diseases of Tree Fruits).....	J. B. Julien
Senior Plant Pathologist.....	(Seed-borne Diseases).....	Dr. A. J. Skolko
Associate Plant Pathologist..	(Disease of Forage Crops).....	R. J. H. Baylis
Assistant Plant Pathologist..	(Seed-borne Bacteria).....	R. M. D. Sutton
Assistant Plant Pathologist..	(Seed-borne Diseases).....	V. R. Wallen
Assistant Plant Pathologist..	(Diseases of Cereals).....	R. V. Clark
Assistant Plant Pathologist..	(Microbiology).....	R. H. Wensley
Assistant Plant Pathologist..	(Seed-borne Diseases).....	Miss M. E. Elliott

CHEMISTRY DIVISION

This division conducts research studies involving the application of chemistry to animal, plant, and soil science. Major fields of work deal with the nutrition and metabolism of the larger domestic animals, vitamin and physiological research using small experimental animals, the mineral requirements of plants, pesticides, and fundamental studies on soil mineralogy and organic matter.

It provides a chemical consulting and analytical service for investigations and research of primary concern to other divisions of the Department. Advisory services are maintained for those interested in the industrial utilization of agricultural products; and the division assists the Department in administering several Federal Acts involving chemical and biological analysis.

Chief of Division.....	Dr. J. C. Woodward
Assistant Chief of Division.....	J. T. Janson
Administrative Officer.....	H. L. Boyd
Head, Food Investigations Unit.....	J. T. Janson
Assistant Chemist.....	(Processed Foods)..... I. Hoffman
Assistant Chemist.....	(Dairy Research)..... W. A. McGugan
Head, Animal Chemistry Unit.....	Dr. A. R. G. Emslie
Senior Chemist.....	(Metabolism)..... Dr. B. B. Migicovsky
Senior Chemist.....	(Vitamins)..... Dr. D. H. Laughland
Chemist.....	(Hormones)..... C. E. Allen
Associate Chemist.....	(Vitamins)..... Dr. J. G. Brisson
Assistant Chemist.....	(Hormones)..... Miss D. Dow
Assistant Chemist.....	(Histochemistry)..... W. R. Settle
Assistant Chemist.....	(Vitamins)..... R. G. Burgess
Assistant Chemist.....	(Vitamins)..... Miss P. Ellis
Assistant Chemist.....	(Vitamins)..... M. Gluck
Assistant Chemist.....	(Metabolism)..... Miss J. E. Shore
Assistant Chemist.....	(Animal Nutrition)..... J. W. S. Jamieson
Head, Plant Chemistry Unit.....	Dr. F. B. Johnston
Chemist.....	(Metabolism)..... Dr. D. Siminovitch
Chemist.....	(Metabolism)..... G. M. Ward
Associate Chemist.....	(Analytical)..... R. B. Carson

Associate Chemist.....	(Organic).....	Miss M. E. McKillican
Associate Chemist.....	(Inorganic).....	W. E. Nichol
Assistant Chemist.....	(Fruit and Vegetable Processing).....	G. S. Harper
Assistant Chemist.....	(Inorganic).....	R. Buckmaster
Assistant Chemist.....	(Minerals).....	A. B. Durkee
Assistant Chemist.....	(Analytical).....	Miss M. S. MacIntosh
Assistant Chemist.....	(Organic).....	N. Allentoff
Head, Soil Chemistry Unit.....		Dr. H. J. Atkinson
Chemist.....	(Soil Fertility).....	R. F. Bishop
Associate Chemist.....	(Trace Elements).....	G. R. Giles
Associate Chemist.....	(Organic Matter).....	Dr. F. J. Sowden
Associate Chemist.....	(Physical Chemistry).....	Dr. R. C. Turner
Associate Chemist.....	(Mineralogy).....	H. M. Rice
Associate Chemist.....	(Genesis).....	J. R. Wright
Assistant Chemist.....	(Organic Matter).....	Mrs. D. I. Parker
Assistant Chemist.....	(Fertility).....	L. E. Lutwick
Assistant Chemist.....	(Mineralogy).....	J. E. Brydon

ENTOMOLOGY DIVISION

This division is responsible for the administration of agricultural entomology and all other entomology except the control of forest insect pests. The activities of the Division have for their object the protection of man and the products of agriculture, industry, and commerce against loss through insect damage; and the development and maintenance of the Canadian National Collection of insects. These activities involve study of the life-histories, habits, and classification of the various insect pests, invention of and improvement in methods of control, and dissemination of relevant information. The work includes surveys of the abundance of injurious insects and general estimates of commercial losses, forecasting of outbreaks, salvage of damaged materials, and provision of advice to individuals, organizations, and other national and provincial government agencies in the suppression of insect outbreaks and the organization of control campaigns. Investigations of the control of injurious pests include the use of fumigants, dusts, and sprays, and methods of application; use of parasites and diseases of injurious insects; and development of special management practices.

The Division co-operates in the administration of the Destructive Insect and Pest Act and the Pest Control Products Act.

Chief of Division.....	Dr. Robert Glen
Associate Chief of Division.....	H. G. Crawford
Divisional Editor.....	R. H. Wigmore
Administrative Officer.....	W. W. Packman
Head, Field Crop Insect Unit.....	H. L. Seamans
Assistant Head, Field Crop Insect Unit.....	Vacant
Officer-in-Charge, Nematode Investigations.....	Dr. A. D. Baker
Associate Entomologist..... (Potato-rot Nematodes).....	V. E. Henderson
Assistant Entomologist..... (Sugar-beet Nematodes).....	R. H. Mulvey
Head, Systematic Entomology Unit.....	G. P. Holland
Senior Entomologist..... (Coleoptera).....	W. J. Brown
Senior Entomologist..... (Hymenoptera).....	G. S. Walley
Entomologist..... (Hymenoptera).....	Dr. O. Peck
Entomologist..... (Lepidoptera).....	Dr. T. N. Freeman
Entomologist..... (Diptera).....	G. E. Shewell
Entomologist..... (Hemiptera).....	Dr. B. P. Beirne
Associate Entomologist..... (Lepidoptera).....	Dr. E. G. Munroe
Associate Entomologist..... (Lepidoptera).....	D. F. Hardwick
Associate Entomologist..... (Hymenoptera).....	Dr. R. Lambert
Assistant Entomologist..... (Hymenoptera).....	W. R. M. Mason
Assistant Entomologist..... (Diptera).....	J. R. Vockeroth
Assistant Entomologist..... (Northern Survey).....	E. H. N. Smith
Assistant Entomologist..... (Northern Survey).....	J. F. McAlpine
Assistant Entomologist..... (Hymenoptera).....	C. D. F. Miller
Assistant Entomologist..... (Northern Survey).....	J. G. Chillcott
Head, Fruit Insect Unit.....	W. A. Ross
Associate Entomologist..... (Insecticides).....	W. S. McLeod

Head, Biological Control Unit.....	A. B. Baird
Head, Stored Product Insect Unit.....	Dr. H. E. Gray
Assistant Entomologist..... (Spider Beetles).....	J. H. Follwell
Assistant Entomologist..... (Histology and toxicology).....	Dr. J. W. Arnold
Assistant Entomologist..... (Food preferences of mill insects).....	S. R. Loschiavo
Assistant Entomologist..... (Flour mill insects).....	E. F. Cashman
Head, Household and Medical Entomology Unit.....	Dr. C. R. Twinn
Entomologist..... (Airplane spraying and aerosol application—seasonal).....	Dr. A. W. A. Brown
Entomologist..... (Black Fly Biology and Control—seasonal).....	B. Hocking
Entomologist..... (Insect Vectors of Disease; Biology of Blood-sucking Insects).....	F. J. F. O'Rourke
Associate Entomologist..... (Insecticides and Repellents).....	L. A. O. Roadhouse
Assistant Entomologist..... (Household Insects; Canadian Insect Pest Survey).....	C. G. MacNay
Assistant Entomologist..... (Assistant Administration; Biting Fly Studies).....	J. F. Sharp
Assistant Entomologist..... (Serological Studies).....	G. S. Eligh
Assistant Entomologist..... (Biology and Ecology of Biting Flies).....	W. O. Haufe
Assistant Entomologist..... (Biology and Control of Tabanidae).....	H. J. Teskey
Assistant Entomologist..... (Control of Biting Flies).....	D. L. Watson
Assistant Entomologist..... (Mosquitoes).....	D. G. Peterson

FOREST BIOLOGY DIVISION

This division, which was established on January 1, 1951, includes the units of Forest Zoology and Forest Pathology. It is responsible for investigations on insects, fungous diseases, and other factors affecting forest and shade trees and forest products. The Division works in close co-operation with federal and provincial forest services and with the lumber and paper industries.

The activities of the Unit of Forest Zoology include studies on noxious forest insects and the development of preventive or control methods by forest management, chemicals, and by the employment of parasites and disease organisms.

In the Unit of Forest Pathology, studies are conducted on the nature and causes of disease in forest and ornamental trees, the objective being to determine methods of prevention which can be applied through forest management.

Chief of Division.....	J. J. de Gryse
Associate Chief of Division.....	Dr. J. E. Bier
Assistant Chief of Division.....	D. E. Gray
Research Assistant and Editorial Adviser..... (Forest Zoology).....	E. B. Watson
Research Assistant and Editorial Adviser..... (Forest Pathology).....	A. W. McCallum

PLANT PROTECTION DIVISION

This division is responsible for the enforcement of regulations under the Destructive Insect and Pest Act in respect to import and export shipments of plants and plant products; for the certification, after inspection in the field, in storage, and at shipping points, of potatoes as seed potatoes; for the certification, after inspection in the field, in storage, and at the time of shipment, of flower bulbs produced in British Columbia and for the inspection of ocean vessels at seaboard ports prior to the loading of cargoes of grain and cereal products for export. The Division maintains domestic insect and plant disease quarantines and enforces preventive measures against the introduction of new pests. Control or eradication measures are carried out with regard to foreign pests or diseases which have become established in Canada. Flour mills, warehouses or other

premises are inspected as and when required in order that certificates of health may be issued to meet the requirements of importing countries in respect to plants and plant products exported.

Chief of Division.....	W. N. Keenan
Associate Chief of Division.....	W. A. Fowler
Assistant Chief of Division.....	(Seed Potato Certification)..... J. W. Scannell
Administrative Officer.....	(Plant Inspection)..... S. H. Short
Administrative Officer.....	(Plant Inspection)..... P. N. Vroom
Administrative Officer.....	(Plant Inspection)..... L. L. Reed
Senior Inspector.....	(Seed Potato Certification and Plant Inspection)..... O. W. Lachaine
Senior Inspector.....	(Seed Potato Certification and Plant Inspection)..... N. D. Cass
Inspector.....	E. H. Peters
Technical Officer.....	W. A. Jordan

SCIENCE SERVICE BRANCH LABORATORIES

Newfoundland

St. John's—

Field Crop Insect Laboratory, 123 Water Street,

Officer-in-Charge (Field Crop Insects).....	H. A. Butler
Assistant Entomologist (Turnip Maggot).....	R. F. Morris

Prince Edward Island

Charlottetown—

Laboratory of Plant Pathology, P.O. Box 220,

Officer-in-Charge (Potato Diseases).....	R. R. Hurst
Associate Plant Pathologist (Diseases of Vegetables).....	G. W. Ayers
Associate Plant Pathologist (Diseases of Vegetables).....	D. B. Robinson
Assistant Plant Pathologist (Potato Diseases).....	L. C. Callbeck
Assistant Plant Pathologist (Potato Diseases).....	J. E. Campbell

Field Crop Insect Laboratory,

Officer-in-Charge.....	F. M. Cannon
Assistant Entomologist (Turnip Root Maggot).....	Miss M. E. MacLeod
Assistant Entomologist (Vegetable Insects).....	A. B. Stevenson
Assistant Entomologist (Vegetable Insects).....	D. C. Read

Nova Scotia

Debert—

Laboratory of Forest Biology, Unit of Forest Zoology, Nova Scotia Agricultural College,

Officer-in-Charge.....	F. G. Cuming
Assistant Forest Biologist (Forest Insect Survey).....	D. G. Embree

Kentville—

Laboratory of Plant Pathology, Box 400,

Officer-in-Charge.....	J. F. Hockey
Associate Plant Pathologist (Diseases of Fruit and Vegetables).....	K. A. Harrison
Assistant Plant Pathologist (Fruit Diseases).....	D. W. Creelman
Assistant Plant Pathologist (Fruit Diseases).....	C. O. Gourley
Assistant Plant Pathologist (Fruit Diseases).....	R. G. Ross
Assistant Botanist (Plant Histology).....	I. V. Hall
Assistant Plant Pathologist (Fruit Diseases).....	C. L. Lockhart

Laboratory of Chemistry, Dominion Experimental Station,

Officer-in-Charge.....	F. A. Herman
Assistant Chemist (Soils).....	C. R. MacEachern
Assistant Chemist (Plant Chemistry).....	D. Chisholm
Assistant Chemist (Analytical).....	L. R. Townsend

Fruit Insect Laboratory,

Officer-in-Charge.....	A. D. Pickett
Associate Entomologist (Orchard Insecticide Inves- tigations).....	N. A. Patterson
Associate Entomologist (Ecological Investigations).....	F. T. Lord

Nova Scotia—Continued

Associate Entomologist (Ecological Investigations)...	A. W. MacPhee
Assistant Entomologist (Ecological Investigations)...	H. T. Stultz
Assistant Entomologist (Mite Investigations).....	Miss H. J. Herbert
Assistant Entomologist (Insect Diseases).....	C. Phillips
Assistant Entomologist (Mite Investigations).....	H. B. Specht
Assistant Entomologist (Budmoths and leaf rollers) .	K. H. Sanford
Assistant Entomologist (Ecological Studies).....	C. R. MacLellan
Assistant Entomologist (Field Crop Insects).....	C. J. S. Fox

New Brunswick*Sackville—*

<i>Animal Pathology Laboratory, Maritime Area, P.O. Box 310,</i>	
Officer-in-Charge.....	Dr. J. Frank

Fredericton—

<i>Laboratory of Plant Pathology, Drawer 940,</i>	
Officer-in-Charge.....	Dr. D. J. MacLeod
Plant Pathologist (Potato Diseases).....	J. L. Howatt
Assistant Plant Pathologist (Potato Diseases).....	W. A. Hodgson
Assistant Plant Pathologist (Virus Diseases of Potato)	R. H. Bagnall
Assistant Plant Pathologist (Virus Diseases of Potato)	Vacant
Assistant Plant Pathologist (Vegetable Diseases).....	C. H. Lawrence

Fruit Insect Laboratory,

Officer-in-Charge.....	C. W. B. Maxwell
Assistant Entomologist (Small-fruit Insect Investiga-	
tions).....	G. T. Morgan
Assistant Entomologist (Small-fruit Insect Investiga-	
tions).....	G. W. Wood
Assistant Entomologist (Small-fruit Insect Investiga-	
tions).....	W. Neilson

Field Crop Insect Laboratory, Box 971,

Officer-in-Charge.....	Mrs. J. B. Adams
Associate Entomologist (Insect Transmission of	
Plant Viruses).....	Dr. R. H. Bradley
Assistant Entomologist (Vegetable Insect Investiga-	
tions).....	D. D. Pond
Assistant Entomologist (Aphid Taxonomy).....	Mrs. M. E. MacGillivray
Assistant Entomologist (Genetics).....	L. A. Dionne
Assistant Entomologist (Insecticides).....	R. A. M. Kelley
Assistant Entomologist (Aphid Surveys).....	D. W. Rideout
Assistant Entomologist (Root Maggots).....	R. C. Sherwood

Laboratory of Forest Biology, Unit of Forest Zoology, University of New Brunswick,

Officer-in-Charge.....	Dr. R. E. Balch
Senior Forest Biologist (Ecology; Forest Manage-	
ment; Population Sampling).....	Dr. R. F. Morris
Forest Biologist (Forest Insect Survey, In Charge	
Maritimes).....	W. A. Reeks
Assistant Forest Biologist (Forest Insect Survey—	
Systematic to Studies).....	R. S. Forbes
Assistant Forest Biologist (Natural Control Spruce	
Budworm).....	C. A. Miller
Assistant Forest Biologist (Ecological Studies;	
Newfoundland).....	W. J. Carroll
Assistant Forest Biologist (Population Studies and	
Epidemiology).....	F. E. Webb
Assistant Forest Biologist (Physiological Studies of	
Birch).....	J. Clark
Assistant Forest Biologist (Forest Management)....	H. G. MacGillivray
Assistant Forest Biologist (Forest Insect Survey—	
Adelgidae).....	G. R. Underwood
Assistant Forest Biologist (Forest Insect Survey—	
Biological Studies).....	G. T. Silver
Assistant Forest Biologist (Forest Management)....	D. O. Greenbank
Assistant Forest Biologist (Forest Insect Survey)....	D. G. Cameron
Assistant Forest Biologist (Natural Control Balsam	
Woolly Aphid and Beach Scale).....	R. C. Clark

New Brunswick—Continued

<i>Laboratory of Forest Biology, Unit of Forest Pathology, University of New Brunswick,</i>	
Officer-in-Charge.....	D. R. Redmond
Assistant Forest Biologist (Balsam Fir and Spruce Decay—New Brunswick).....	A. G. Davidson
Assistant Forest Biologist (White Pine Diseases— New Brunswick and Nova Scotia).....	W. K. McGinn
Assistant Forest Biologist (Diseases of Birch— Maritimes).....	J. T. B. Kingston

Quebec*Quebec City—*

<i>Insect Parasite Laboratory, New Forestry School, Laval University,</i>	
Officer-in-Charge.....	L. J. Briand
Assistant Entomologist (Biological Control Forest Insects).....	C. R. F. Davis
Assistant Entomologist (Biological Control Vege- table Insects).....	I. Rivard
Assistant Entomologist (Biological Control Forest Insects).....	J. R. Villeneuve

Ste. Anne de la Pocatiere—

<i>Laboratory of Plant Pathology, Box 70,</i>	
Officer-in-Charge.....	Dr. J. C. Perrault
Associate Plant Pathologist (Field Crop Diseases)...	Dr. R. O. Lachance
Assistant Plant Pathologist (Potato Diseases).....	H. Genereux
Assistant Plant Pathologist (Vegetable Diseases)...	L. J. Coulombe
Assistant Botanist (Plant Ecology).....	J. G. A. Hamel
Assistant Plant Pathologist (Field Crop Diseases)...	R. Paquin
Assistant Plant Pathologist (Mycology).....	A. Payette

Field Crop Insect Laboratory

Officer-in-Charge (Vegetable Insect Investigations)...	J. A. Duncan
Assistant Entomologist (Aphid Surveys and Para- sites).....	G. R. Couture

Hemmingford—

<i>Fruit Insect Laboratory,</i>	
Officer-in-Charge.....	C. E. Petch

St. Jean—

<i>Sub-Laboratory of Plant Pathology,</i>	
Officer-in-Charge.....	L. Cinq-Mars
Assistant Plant Pathologist (Fruit Diseases).....	R. Crête

Laboratory of Entomology,

Officer-in-Charge (Fruit Insect Investigations).....	A. A. Beaulieu
--	----------------

Fruit Insect Section,

Assistant Entomologist (Fruit Insect Investigations).	B. Parent
Assistant Entomologist (Fruit Insect Investigations).	R. Paradis

Field Crop Insect Section,

Officer-in-Charge (Vegetable Insect Studies).....	J. P. Perron
Associate Entomologist (Resistance of plants to aphids).....	J. B. Maltais
Associate Entomologist (Insect Physiology).....	Dr. J. L. Auclair
Assistant Entomologist (Aphid Resistance).....	Miss B. Fortin
Assistant Entomologist (Vegetable Insects).....	J. Lafrance
Assistant Entomologist (Onion Maggot).....	M. Hudon

Ste. Anne de Bellevue—

<i>Animal Pathology Laboratory, Montreal Area, Macdonald College, Que. (Parasitology)</i>	
Officer-in-Charge.....	Dr. W. E. Swales

Ontario*Ottawa—**Animal Pathology Laboratory, Science Service Building, Carling Avenue, (Poultry Diseases)*

Officer-in-Charge.....Dr. G. L. Bannister
 Assistant Animal Pathologist.....Dr. E. W. Bond

Vegetable Insect Laboratory, Science Service Building, Carling Avenue,

Officer-in-Charge.....W. G. Matthewman
 Assistant Entomologist (Insecticides, Vegetable
 Insects).....D. G. Harcourt
 Assistant Entomologist (Carrot Rust Fly).....Dr. H. E. Scott
 Assistant Entomologist (Root Maggots).....W. G. Friend
 Assistant Entomologist (Carrot Rust Fly).....Miss J. B. F. Williams

Laboratory of Forest Biology, Unit of Forest Zoology, Science Service Building, Carling Avenue,

Associate Forest Biologist (Bark Beetle and Wood
 Borer Studies).....W. Haliburton
 Assistant Forest Biologist (Forest Insect Survey—
 Systematic Studies).....Miss M. R. MacKay
 Assistant Forest Biologist (Spruce Seed and Cone
 Insects).....H. A. Tripp
 Assistant Forest Biologist (Forest Insect Survey—
 Liaison).....R. F. Beique
 Assistant Forest Biologist (Forest Insect Survey—
 Geometrid Larvae).....Miss B. A. Michael

*Kingston—**Insect Diseases Laboratory, Department of Bacteriology, Queen's University,*

Officer-in-Charge.....Dr. G. E. Bucher
 Assistant Entomologist (Bacterial Diseases of
 Insects).....Miss J. M. Stephens
 Assistant Entomologist (Fungus Diseases of Insects).....R. B. Baird

*Belleville—**Insect Parasite Laboratory, P.O. Box 179,*

Officer-in-Charge.....Dr. A. Wilkes
 Administrative Officer.....C. A. S. Smith
 Entomologist (Field Crop and Pasture Insect Para-
 sites).....R. W. Smith
 Entomologist (Vegetable and Canning Crop Insect
 Parasites).....G. Wishart
 Entomologist (Population Ecology and Greenhouse
 Insects).....Dr. T. Burnett
 Entomologist (Insect Nutrition).....Dr. H. L. House
 Entomologist (Forest Insect Parasites).....Dr. H. C. Coppel
 Associate Entomologist (Biting Fly Parasites; Refer-
 ence Collection).....H. G. James
 Associate Entomologist (Fruit Insect Parasites)....Dr. D. P. Pielou
 Associate Entomologist (Biological Control of Weeds).....Dr. J. M. Smith
 Assistant Entomologist (Spruce and Pine Sawflies)...W. F. Baldwin
 Assistant Entomologist (Spruce and Pine Sawflies)...L. R. Finlayson
 Assistant Entomologist (Taxonomy Parasitic Insects).....Dr. J. C. Martin
 Assistant Entomologist (Host Parasite Conditioning).....L. G. Monteith
 Assistant Entomologist (Spruce and Pine Sawflies)...Mrs. T. U. Finlayson
 Assistant Entomologist (Forest Insect Parasites)....Miss A. E. Monteith
 Assistant Entomologist (Fruit Insect Parasites)....R. F. Glasser
 Assistant Entomologist (Forest Insect Parasites)....A. P. Arthur
 Assistant Entomologist (Grasshopper Parasites)....A. J. Howitt
 Assistant Entomologist (Vegetable Insect Parasites).....G. E. Maybee
 Assistant Entomologist (Forest Insect Parasites)....A. R. Graham
 Assistant Entomologist (Research Technical Services).....Miss J. F. Bronskill
 Assistant Entomologist (Vegetable and Canning
 Crop Parasites).....E. H. Colhoun
 Assistant Entomologist (Forest Insect Parasites)....H. G. Wylie
 Assistant Entomologist (Insect Nutrition).....M. G. Maw
 Assistant Entomologist.....B. C. Smith
 *Assistant Entomologist (Vegetable Insect Inves-
 tigations).....J. E. Armand
 Assistant Entomologist.....M. L. Boyd

* Box 1120, Picton, Ontario.

Ontario—Continued*Marmora—*

Field Crop Insect Seasonal Laboratory,
Officer-in-Charge (White Grub Investigations) G. H. Hammond

Vineland—

Fruit Insect Laboratory,
Officer-in-Charge G. G. Dustan
Entomologist (Ecology) W. L. Putman
Associate Entomologist (Codling Moth) W. G. P. Garlick
Associate Entomologist (Stone Fruit and Pear
Insects) T. Armstrong
Associate Entomologist (Insect Vectors of Stone
Fruit Virus Diseases) J. H. H. Phillips
Assistant Entomologist (Biology Oriental Fruit
Moth) R. C. Miller
Assistant Entomologist (Insect Population Studies) S. E. Brown
Assistant Entomologist (Effect of Spraying Materials
on Peach Trees) A. Hikichi

Toronto—

**Laboratory of Forest Biology, Unit of Forest Pathology, 144 Front Street West,*
Forest Biologist (Organization, Establishment, and
Supervision of Field Crews) Dr. L. T. White
Associate Forest Biologist (Forest Disease Survey;
Toronto Herbarium) Dr. D. A. Quirke
Assistant Forest Biologist (Pathological Deteriora-
tion Fire-killed Timber) J. T. Basham
Assistant Forest Biologist (White Pine Needle Blight) B. W. Dance
Assistant Forest Biologist (White Pine Blister Rust) E. Eggertson
Assistant Forest Biologist (Smelter Fume Injury) J. A. Ham
Assistant Forest Biologist (Plantation and Nursery
Stock Diseases) J. Cockerill

**Laboratory of Forest Biology, Unit of Forest Zoology, 114 Front Street West,*
Associate Forest Biologist (Control of Insects
Affecting Plantations, Shade Trees, Orna-
mentals and Nursery Stock) K. E. Stewart
Assistant Forest Biologist (Dutch Elm Disease
Vector Control) R. J. Finnegan
Assistant Forest Biologist (European Pine Shoot
Moth, Juniper Scale Control) C. C. S. Kirby

St. Catharines—

Laboratory of Plant Pathology, Box 87,
Officer-in-Charge (Virus Diseases of Stone Fruits) Dr. G. H. Berkeley
Plant Pathologist (Virus Diseases of Fruit) Dr. R. S. Willison
Associate Plant Pathologist (Fruit Diseases) G. C. Chamberlain
Associate Plant Pathologist (Vegetable Diseases) J. K. Richardson
Associate Plant Pathologist (Microbiology) Dr. R. G. Atkinson
Associate Plant Pathologist (Diseases of Greenhouse
Crops) J. D. Gilpatrick
Assistant Plant Pathologist (Plant Histology—
Viruses) Dr. M. Weintraub
Assistant Plant Pathologist (Vegetable Diseases) W. G. Kemp
Assistant Plant Pathologist (Fruit Diseases) Vacant

Laboratory of Bacteriology, Box 87,
Officer-in-Charge (Soil Microbiology) Vacant

Simcoe—

Fruit Insect Laboratory, 315 Main Street,
Officer-in-Charge J. A. Hall

* Until August 1, 1952; thereafter, Maple, Ontario.

Ontario—Continued*London—*

- Bacteriology Section, Science Service Laboratory, University Sub Post Office,*
 Principal Bacteriologist.....Dr. C. L. Hannay
 Senior Bacteriologist (Soils).....Dr. J. W. Rouatt
- Plant Pathology Section, Science Service Laboratory, University Sub Post Office,*
 Principal Plant Pathologist (Plant Pathology).....Dr. R. A. Ludwig
 Senior Plant Pathologist (Plant Pathology).....Dr. L. T. Richardson
- Plant Physiology Section, Science Service Laboratory, University Sub Post Office,*
 Principal Plant Physiologist (Plant Physiology).....Dr. A. A. Andreae
 Senior Plant Physiologist (Plant Physiology).....Dr. W. H. Minshall
- Chemistry Section, Science Service Laboratory, University Sub Post Office,*
 Principal Chemist.....Dr. E. Y. Spencer
 Senior Chemist (Physical).....Dr. D. M. Miller
 Senior Chemist (Organic).....Dr. G. D. Thorn
 Associate Chemist (Analytical).....J. R. W. Miles
- Entomology Section, Science Service Laboratory, University Sub Post Office,*
 Principal Entomologist.....Dr. B. N. Smallman
 Senior Entomologist (Insect Toxicology).....Vacant
 Senior Entomologist (Insect Physiology).....Dr. G. D. Chefurka
 Assistant Entomologist (Insect Rearing).....R. W. Fisher

Chatham—

- Field Crop Insect Laboratory,*
 Officer-in-Charge.....G. F. Manson
 Associate Entomologist (European Corn Borer).....H. B. Wressell
 Assistant Entomologist (Vegetable Insects).....L. A. Miller
 Assistant Entomologist (Wireworms).....J. A. Begg
 Assistant Entomologist (Wireworms).....D. I. V. Lalonde
 Assistant Entomologist (Tobacco Insects).....W. E. Butler

Harrow—

- Laboratory of Plant Pathology,*
 Officer-in-Charge (Field Crop Diseases).....Dr. L. W. Koch
 Senior Plant Pathologist (Sugar Beet and Soybean Diseases).....Dr. A. A. Hildebrand
 Associate Plant Pathologist (Vegetable Diseases)....Dr. C. D. McKeen
 Associate Plant Pathologist (Corn Diseases).....Vacant
 Associate Plant Pathologist (Tobacco Diseases)....Vacant
 Associate Plant Pathologist (Vegetable Diseases)....W. G. Benedict
 Assistant Plant Pathologist (Forage Crop Diseases)..W. B. Mountain

Fruit Insect Laboratory,

- Officer-in-Charge.....H. R. Boyce
 Assistant Entomologist (Mites, thrips and other Pests of Peach).....E. J. Leroux

Sault Ste. Marie—

- Laboratory of Forest Biology, Unit of Forest Zoology, Box 490,*
 Officer-in-Charge, Sault Ste. Marie
 Laboratories (Combined Establishment).....Dr. M. L. Prebble
 Assistant Officer-in-Charge
 (And In Charge Laboratory of Insect Pathology). Dr. J. W. MacB. Cameron
 Principal Forest Biologist (Cytogenetics).....Dr. S. G. Smith
 Senior Forest Biologist (Bioclimatology).....Dr. W. G. Wellington
 Forest Biologist (Forest Insect Survey, In Charge Ontario).....Dr. B. M. McGugan
 Associate Forest Biologist (Deterioration and salvability spruce budworm killed Balsam Fir).....Dr. R. M. Belyea
 Associate Forest Biologist (Populations, Bionomics and Natural Control Spruce Budworm).....Dr. J. R. Blais
 Associate Forest Biologist (Ecological Studies, Birch Deterioration).....Dr. D. A. Fraser
 Associate Forest Biologist (Bioclimatology—Lodgepole Needle Miner).....Dr. W. R. Henson

Ontario—Continued

Associate Forest Biologist (Genetics of Insect Populations).....	Dr. G. W. K. Stehr
Assistant Forest Biologist (Phenological Investigations).....	A. H. Rose
Assistant Forest Biologist (Ecological Studies Bark Beetles).....	J. B. Thomas
Assistant Forest Biologist (Wood Borer Deterioration Fire-killed Timber).....	L. M. Gardiner
Assistant Forest Biologist (Bioclimatology—white pine weevil).....	C. R. Sullivan
Assistant Forest Biologist (Cytology of sawflies).....	Miss D. E. Maxwell
Assistant Forest Biologist (Deterioration and salvability Studies).....	A. J. Warwick
Assistant Forest Biologist (Seed Insects of Red Pine).....	L. A. M. Lyons
Assistant Forest Biologist (Flowering history Balsam Fir in Relation to Spruce Budworm Outbreaks).....	W. E. Cawthray
Assistant Forest Biologist (Forest Insect Survey—Systematic Studies).....	N. W. Y. Watson
Assistant Forest Biologist (Cytogenetics Rearing Program).....	I. M. Campbell
Assistant Forest Biologist (Natural Control Spruce Budworm).....	S. McDonald
Assistant Forest Biologist (Regeneration and Successional Changes Budworm Devastated Stands).....	J. R. Rooke
Assistant Forest Biologist (Forest Insect Survey).....	W. L. Sippell
Assistant Forest Biologist (Forest Insect Survey).....	E. J. Bond
Assistant Forest Biologist (Bioclimatology—Insect Behaviour).....	G. W. Green
Assistant Forest Biologist (Ecological Relationships Forest Tent Caterpillar and Spruce Budworm Outbreaks).....	A. W. Ghent
Assistant Forest Biologist (Ecological Relationships Old Spruce Budworm Outbreak).....	K. R. Elliott
Assistant Forest Biologist (Ecological Relationships Old Spruce Budworm Outbreak).....	K. J. Griffiths
Assistant Forest Biologist (Bioclimatology—White Pine Weevil).....	J. M. Anderson

Laboratory of Insect Pathology, Unit of Forest Zoology, Box 490,

Officer-in-Charge.....	Dr. J. W. MacB. Cameron
Principal Forest Biologist (Insect Viruses—Fundamental Studies).....	Dr. G. H. Bergold
Senior Forest Biologist (Insect Viruses—Epidemiology and Histopathology).....	Dr. F. T. Bird
Associate Forest Biologist (Insect Viruses—Biochemistry and Serology).....	Dr. G. R. Wyatt
Associate Forest Biologist (Entomogenous Fungi).....	D. M. MacLeod
Assistant Forest Biologist (Bacteria Associated With Insects).....	T. A. Angus
Assistant Forest Biologist (Pathogens of the Larch Sawfly).....	A. M. Heimpel
Assistant Forest Biologist (Pathogens of the Spruce Budworm).....	H. M. Thomson
Assistant Forest Biologist (Insect Viruses—Tissue Cultures).....	Mrs. I. S. S. Wyatt
Assistant Forest Biologist (Insect Viruses—Biochemistry).....	Mrs. E. F. Wellington
Assistant Forest Biologist (Insect Viruses—Histopathology).....	Miss M. M. Whalen

Manitoba*Winnipeg—**Laboratory of Plant Pathology, University of Manitoba,*

Officer-in-Charge.....	Dr. W. F. Hanna
Principal Plant Pathologist (Cereal Rusts).....	Dr. T. Johnson
Senior Plant Pathologist (Root Diseases of Cereals).....	Dr. J. E. Machacek
Plant Pathologist (Mycology—Genus <i>Fusarium</i>).....	Dr. W. L. Gordon
Plant Pathologist (Bacterial Diseases of Cereals).....	Dr. W. A. F. Hagborg
Plant Pathologist (Physiology of Cereal Rusts).....	Vacant

Manitoba—Continued

Associate Plant Pathologist (Cereal Smuts).....	Dr. W. J. Cherewick
Associate Plant Pathologist (Flax and Sunflower Diseases).....	Dr. W. E. Sackston
Associate Plant Pathologist (Cereal Rusts).....	B. Peturson
Associate Plant Pathologist (Cereal Rusts).....	A. M. Brown
Associate Plant Pathologist (Cereal Smuts).....	W. Popp
Assistant Plant Pathologist (Root Diseases of Cereals).....	H. A. H. Wallace
Assistant Plant Pathologist (Cereal Rusts).....	G. J. Green
Assistant Plant Pathologist (Cereal Diseases).....	W. C. McDonald
Assistant Plant Pathologist (Cereal Diseases).....	H. Dirks

Stored Products Insect Laboratory, 724 Dominion Public Building,

Acting Officer-in-Charge.....	F. L. Watters
Assistant Entomologist (Residual Insecticide Analysis).....	B. Berck

Laboratory of Forest Biology, Unit of Forest Zoology, Box 156, University of Manitoba,

Officer-in-Charge.....	R. R. Lejeune
Assistant Forest Biologist (Larch Sawfly Nutritional Studies).....	R. J. Heron
Assistant Forest Biologist (Forest Insect Survey, in Charge).....	H. R. Wong
Assistant Forest Biologist (Population Studies, Larch Sawfly).....	W. J. Turnock
Assistant Forest Biologist (Poplar and Spruce Decay).....	R. L. Black
Assistant Forest Biologist (Larch Sawfly Parasites).....	J. A. Muldrew
Assistant Forest Biologist (Forest Insect Survey—Ecological Studies).....	R. N. Prentice
Assistant Forest Biologist (Management and Silviculture of Larch Sawfly).....	H. A. McKinnon
Assistant Forest Biologist (Hypomolyx sp. and Root-rot White Spruce).....	G. L. Warren
Assistant Forest Biologist (Moisture Relationships Larch Sawfly Infestations).....	W. G. H. Ives

Brandon—*Field Crop Insect Laboratory,*

Officer-in-Charge.....	Dr. R. D. Bird
Associate Entomologist (Toxicology, Physiology).....	W. R. Allen
Assistant Entomologist (Sunflower Insects).....	P. H. A. N. Westdal
Assistant Entomologist (Forage Crop Insects).....	Dr. W. P. Stephen
Assistant Entomologist (Grasshoppers).....	T. V. Cole
Assistant Entomologist (Grasshoppers).....	W. Romanow
Assistant Entomologist (Forage Crop Insects).....	C. F. Barrett
Assistant Entomologist (Small-fruit Insect Investigations).....	H. P. Richardson
Assistant Entomologist (Small-fruit Insect Investigations).....	A. G. Robinson

Saskatchewan**Saskatoon—***Laboratory of Bacteriology, University of Saskatchewan,*

Officer-in-Charge.....	Dr. S. H. F. Chinn
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Laboratory of Plant Pathology, University of Saskatchewan,

Officer-in-Charge.....	Dr. P. M. Simmonds
Plant Pathologist (Root Diseases of Cereals).....	Dr. B. J. Sallans
Associate Plant Pathologist (Cereal Smuts).....	Dr. R. C. Russell
Associate Plant Pathologist (Forage Crop Diseases).....	Dr. H. W. Mead
Associate Plant Pathologist (Root Diseases of Cereals).....	R. J. Ledingham
Assistant Plant Pathologist (Root Diseases of Cereals).....	R. D. Tinline

Field Crop Insect Laboratory, University of Saskatchewan,

Officer-in-Charge.....	Dr. A. P. Arnason
Entomologist (Cutworms).....	Dr. H. McDonald
Entomologist (Grasshoppers).....	L. G. Putnam
Associate Entomologist (Forage Crop Insects).....	H. A. McMahon
Assistant Entomologist (Grasshoppers).....	P. W. Reigert

Saskatchewan—Continued

Assistant Entomologist (Vegetable Insects).....	W. W. A. Stewart
Assistant Entomologist (Wireworms).....	J. C. Arrand
Assistant Entomologist (Grasshoppers).....	R. Pickford
Assistant Entomologist (Grasshoppers).....	C. H. Craig
Assistant Entomologist (Forage Crops).....	J. Stangeland
Assistant Entomologist (Cutworms).....	M. E. Taylor
Assistant Entomologist (Wireworms).....	R. Y. Zacharuk
Assistant Entomologist (Wireworms).....	D. C. Eidt

Household and Medical Entomology Laboratory, University of Saskatchewan,
 Officer-in-Charge.....F. J. H. Fredeen
 Assistant Entomologist.....J. A. Shemenchuk

Systematic Entomology Laboratory, University of Saskatchewan,
 Officer-in-Charge (Diptera).....A. R. Brooks
 Assistant Entomologist (Field Studies).....L. Konotopetz

Laboratory of Forest Biology, Unit of Forest Pathology, 309 Birks Building,
 Officer-in-Charge.....Dr. C. G. Riley
 Assistant Forest Biologist (Nursery Diseases Shelter-
 belt Stock).....W. B. G. Denyer
 Assistant Forest Biologist (Spruce Decays, Saskat-
 chewan).....R. D. Whitney

Indian Head—

Laboratory of Forest Biology, Unit of Forest Zoology,
 Officer-in-Charge.....L. O. T. Peterson
 Assistant Forest Biologist (Yellow-headed Spruce
 Sawfly Control).....G. A. Bradley
 Assistant Forest Biologist (Forest Insect Survey)....Miss M. E. P. Cumming
 Assistant Forest Biologist (Caragana Seed Chalcid)....A. F. Hedlin
 Assistant Forest Biologist (Forest Insect Survey—
 In Charge).....C. E. Brown
 Assistant Forest Biologist (Insecticidal Control
 Shelterbelt Insects).....C. Y. Hovey

Alberta*Ralston—*

Entomology Section, Defence Research Board, Suffield Experimental Station,
 Officer-in-Charge.....Dr. H. Hurtig

Forest Biology Section, Suffield Experimental Station,
 Associate Forest Biologist (Chemical Control, Aerial
 Application).....Dr. J. J. Fettes
 Assistant Forest Biologist (Toxicological Studies)....A. C. Rayner

Lethbridge—

Animal Pathology Laboratory, Prairie Area, P.O. Box 639,
 Officer-in-Charge.....Dr. R. C. Duthie
 Associate Animal Pathologist.....Dr. R. R. Connell
 Associate Animal Pathologist.....Dr. E. V. Langford

Plant Pathology Section, Science Service Laboratories, Box 270,
 Officer-in-Charge.....Dr. M. W. Cormack
 Associate Botanist (Plant Physiology).....Dr. D. W. A. Roberts
 Assistant Plant Pathologist (Forage Crop Diseases)....E. J. Hawn
 Assistant Plant Pathologist (Cereal Diseases).....P. M. Halisky

Chemistry Section, Science Service Laboratories, Box 270,
 Officer-in-Charge (Plant Chemistry).....R. Kasting

Field Crop Insect Section, Science Service Laboratories, Box 270,
 Officer-in-Charge.....Dr. C. W. Farstad
 Senior Entomologist (Ecology, Biology).....Dr. R. W. Salt
 Associate Entomologist (Forage Crop Insects).....Dr. G. A. Hobbs
 Associate Entomologist (Say Stink Bug and Cut-
 worms).....L. A. Jacobson
 Associate Entomologist (Cyto-genetics).....Dr. Ruby I. Larson
 Associate Entomologist (Grasshopper Nutrition)....D. S. Smith

Alberta—Continued

Associate Entomologist (Toxicology).....	I. S. Lindsay
Assistant Entomologist (Wheat Stem Sawfly).....	A. J. McGinnis
Assistant Entomologist (Cutworms).....	P. E. Blakeley
Assistant Entomologist (Grasshopper Nutrition)....	Miss F. E. Northcott
Assistant Entomologist (Wheat Stem Sawfly).....	N. D. Holmes
Assistant Entomologist (Vegetable Insects).....	G. E. Swailes
Assistant Entomologist (Sugar-beet Insects).....	A. M. Harper
Assistant Entomologist (Wheat Stem Sawfly).....	C. E. Lilly
Assistant Entomologist (Wheat Stem Sawfly).....	Miss M. R. Mackay
Assistant Entomologist (Wheat Stem Sawfly).....	L. K. Peterson
Assistant Entomologist (Grasshoppers).....	J. A. Mutchmor
Assistant Entomologist (Ecology, Biology).....	N. S. Church
Assistant Entomologist (Forage Crop Insects).....	M. D. MacDonald

Livestock Insect Laboratory, Box 576,

Officer-in-Charge.....	R. H. Painter
Associate Entomologist (Biology of Biting Flies)....	Dr. J. J. R. McLintock
Assistant Entomologist (Cattle Lice).....	W. A. Nelson
Assistant Entomologist (Horn Fly Investigations)...	K. R. Depner

*Edmonton—**Laboratory of Plant Pathology, University of Alberta,*

Officer-in-Charge.....	Dr. G. B. Sanford
Plant Pathologist (Cereal Diseases).....	Dr. L. E. Tyner
Assistant Plant Pathologist (Potato Virus Diseases)...	T. R. Davidson
Assistant Plant Pathologist (Vegetable Diseases)...	Vacant
Assistant Plant Pathologist (Root Diseases of Cereals).....	S. B. Hrushovetz
Assistant Plant Pathologist (Forage Crop Diseases)...	J. B. Lebeau
Assistant Plant Pathologist (Cereal Diseases).....	W. P. Campbell

*Calgary—**Laboratory of Forest Biology, Unit of Forest Zoology, Customs Building, 11th Ave., and 1st Street East,*

Officer-in-Charge.....	G. R. Hopping
Associate Forest Biologist (Forest Insect Survey, In Charge Alberta).....	W. C. McGuffin
Assistant Forest Biologist (Population Studies Lodgepole Needle Miner).....	R. W. Stark
Assistant Forest Biologist (Forest Insect Survey—Biological Studies).....	R. W. Reid
Assistant Forest Biologist (Spruce Budworm Studies)...	J. A. Cook

Laboratory of Forest Biology, Unit of Forest Pathology, Northern Electric Building, 11th Ave.,

Officer-in-Charge.....	Dr. V. J. Nordin
Assistant Forest Biologist (Spruce Decays Alberta)...	D. E. Etheridge

British Columbia*Summerland—**Laboratory of Bacteriology, R.R. No. 1,*

Officer-in-Charge.....	J. F. Bowen
Assistant Bacteriologist (Food Microbiology).....	Mrs. C. W. Davis

Laboratory of Plant Pathology, R.R. No. 1,

Officer-in-Charge (Fruit Diseases).....	Dr. H. R. McLarty
Plant Pathologist (Virus Diseases of Fruit Trees)...	Dr. M. F. Welsh
Associate Plant Pathologist (Diseases of Vegetables)...	G. E. Woolliams
Associate Plant Pathologist (Virus Diseases of Fruit Trees).....	T. B. Lott
Assistant Plant Pathologist (Fruit Diseases).....	D. L. McIntosh
Assistant Plant Pathologist (Virus Diseases).....	J. M. Wilks

Laboratory of Chemistry, R.R. No. 1,

Associate Chemist (Insecticides).....	Dr. J. M. McArthur
Associate Chemist (Plant Chemistry).....	Dr. C. G. Woodbridge
Assistant Chemist (Insecticides).....	K. Williams
Assistant Chemist (Plant Chemistry).....	Miss A. Carney
Assistant Chemist (Fruit and Vegetable Processing)...	J. A. Kitson

British Columbia—Continued*Fruit Insect Laboratory, R.R. No. 1,*

Officer-in-Charge.....	Dr. J. Marshall
Associate Entomologist (Orchard Mites).....	C. V. G. Morgan
Associate Entomologist (Insect Vectors of Virus Diseases).....	Dr. D. B. Waddell
Assistant Entomologist (Stone Fruit Insects).....	M. D. Proverbs
Assistant Entomologist (Insecticides).....	R. S. Downing
Assistant Entomologist (Insect Vector Studies).....	W. H. A. Wilde

*Vernon—**Laboratory of Forest Biology, Unit of Forest Zoology, Box 740,*

Officer-in-Charge.....	W. G. Mathers
Assistant Forest Biologist (Forest Insect Survey, In Charge).....	Dr. D. A. Ross
Assistant Forest Biologist (Spruce Budworm Studies).....	D. K. Campbell
Assistant Forest Biologist (Forest Insect Survey, Systematic Studies).....	P. A. Jones
Assistant Forest Biologist (Management for Control Spruce Bark Beetle).....	J. Walters

*Kamloops—**Livestock Insect Laboratory,*

Officer-in-Charge.....	J. D. Gregson
Associate Entomologist (Insecticides: Population Studies).....	J. Weintraub
Assistant Entomologist (Cattle Lice Investigations).....	T. K. R. Bourns
Assistant Entomologist (Ecto-parasites of Livestock).....	G. B. Rich
Assistant Entomologist (Biting Fly Biology and Control).....	L. C. Curtis

Field Crop Insect Laboratory, Post Office Building,

Officer-in-Charge.....	Dr. R. H. Handford
Associate Entomologist (Vegetable Seed Insects).....	D. A. Arnott
Assistant Entomologist (Onion Maggot).....	D. G. Finlayson
Assistant Entomologist (Vectors of Witches' Broom).....	H. R. McCarthy
Assistant Entomologist (Cutworm and Potato Flea Beetle).....	F. L. Banham

*Agassiz—**Field Crop Insect Laboratory,*

Officer-in-Charge.....	R. Glendenning
Assistant Entomologist (Carrot Rust Fly; Pea Moth).....	H. G. Fulton

*Vancouver—**Animal Pathology Laboratory (Pacific Area), Hut O-18, University of British Columbia,*

Officer-in-Charge.....	Dr. I. W. Moynihan
Animal Pathologist.....	Dr. C. B. Caldwell
Assistant Animal Pathologist.....	Mrs. E. P. B. Powell

Laboratory of Plant Pathology, University of British Columbia,

Officer-in-Charge.....	Dr. R. E. Fitzpatrick
Associate Plant Pathologist (Potato Diseases).....	Dr. N. S. Wright
Assistant Plant Pathologist (Vegetable Diseases).....	H. N. W. Toms
Assistant Plant Pathologist (Fruit Diseases).....	Miss F. C. Mellor
Assistant Plant Pathologist (Potato Diseases).....	R. Stace-Smith

Stored Products Insect Laboratory, 514 Federal Building,

Officer-in-Charge.....	P. Zuk
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Insect Parasite Laboratory, University of British Columbia,

Officer-in-Charge.....	J. H. McLeod
Assistant Entomologist (Fruit Insect Parasites).....	D. A. Chant
Assistant Entomologist (Forest Insect Parasites).....	A. L. Turnbull

*Saanichton—**Laboratory of Plant Pathology,*

Officer-in-Charge.....	Dr. W. Newton
Associate Plant Pathologist (Vegetable Diseases and Mycology).....	W. Jones

British Columbia—Continued

Associate Plant Pathologist (General Plant Pathology).....	Dr. W. E. McKeen
Assistant Plant Pathologist (Diseases of Bulbous Ornamentals).....	J. E. Boshier
Assistant Plant Pathologist (Diseases of Vegetables).....	W. R. Orchard
Assistant Chemist (Fungicide Studies).....	L. E. Lopatecki

Victoria—*Field Crop Insect Laboratory, 210 Belmont Building,*

Officer-in-Charge.....	Dr. K. M. King
Assistant Entomologist (Wireworms).....	A. T. S. Wilkinson

Fruit Insect Laboratory, Parliament Buildings,

Officer-in-Charge.....	H. Andison
Assistant Entomologist (Small-fruit Insects).....	N. V. Tonks
Assistant Entomologist (Insects Attacking Bramble Fruits).....	W. T. Cram

Laboratory of Forest Biology, Unit of Forest Zoology, 311 Post Office Building,

Officer-in-Charge.....	H. A. Richmond
Associate Forest Biologist (Ambrosia Beetle and Sitka Spruce Weevil, Seasonal).....	Dr. K. Graham
Associate Forest Biologist (Spruce Bark Beetle Studies).....	M. G. Thomson
Assistant Forest Biologist (Forest Insect Survey, In Charge).....	D. Evans
Assistant Forest Biologist (Ecology <i>Neodiprion tsugae</i> and <i>N. Abietis</i>).....	G. S. Brown
Assistant Forest Biologist (Forest Insect Survey Co-operation).....	E. D. A. Dyer
Assistant Forest Biologist (Deterioration Hemlock Looper Killed Timber).....	J. M. Kinghorn
Assistant Forest Biologist (Hemlock Looper and Ambrosia Beetle Studies).....	W. E. Webb
Assistant Forest Biologist (Seed and Cone Insect Studies).....	D. N. Radcliffe
Assistant Forest Biologist (Population Sampling for Biological Assessment).....	A. P. Randall
Assistant Forest Biologist (Population Studies Hemlock and Oak Looper).....	J. Burch
Assistant Forest Biologist (Forest Nursery and Plantation Insects).....	D. N. Smith

Laboratory of Forest Biology, Unit of Forest Pathology, 714 Belmont Building,

Officer-in-Charge.....	Dr. R. E. Foster
Associate Forest Biologist (Diseases Black Cottonwood, Douglas Fir).....	G. P. Thomas
Assistant Forest Biology (Seed and Nursery Diseases).....	P. J. Salisbury
Assistant Forest Biologist (Needle Cast of Douglas Fir).....	A. K. Parker
Assistant Forest Biologist (Decay Western Hemlock and Amabilis Fir).....	J. E. Browne
Assistant Forest Biologist (Forest Disease Survey; Herbarium).....	W. G. Ziller
Assistant Forest Biologist (Blister Rust Western White Pine).....	W. A. Porter
Assistant Forest Biologist (Forest Disease Survey—British Columbia).....	N. T. Engelhardt
Assistant Forest Biologist (Pole Blight Western White Pine).....	A. C. Molnar
Assistant Forest Biologist (Physiological Studies Tree Diseases).....	G. W. Wallis

PLANT PROTECTION DIVISION REGIONAL OFFICES**Newfoundland***St. John's—**Plant Inspection Office, 123 Water Street,*

Officer-in-Charge.....	G. C. Morgan
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Prince Edward Island*Charlottetown—**Seed Potato Certification Office, Laboratory of Plant Pathology,*

Officer-in-Charge H. L. McLaren
 Assistant Officer-in-Charge G. C. Ramsay

Nova Scotia*Halifax—**Plant Inspection Office, 417 Dominion Public Building,*

Officer-in-Charge P. G. Webber
 Assistant Officer-in-Charge J. V. Wesley

*Kentville—**Seed Potato Certification Office, Dominion Experimental Station,*

Officer-in-Charge R. C. Layton
 Assistant Officer-in-Charge G. U. McBay

New Brunswick*Saint John—**Plant Inspection Office, Customs Building,*

Officer-in-Charge A. E. McCollom
 Assistant Officer-in-Charge (Seed Potato Inspection) W. G. Ross

*Fredericton—**Seed Potato Certification Office, Customs Building,*

Officer-in-Charge C. H. Godwin
 Assistant Officer-in-Charge C. E. Robison

Quebec*Ste. Anne de la Pocatiere—**Seed Potato Certification Office, Post Office Building,*

Officer-in-Charge B. Baribeau
 Assistant Officer-in-Charge G. Ethier

*Quebec—**Plant Inspection Office, 3 Buade Street,*

Officer-in-Charge L. R. Gagnon

*Montreal—**Plant Inspection Office, 105 McGill Street,*

Officer-in-Charge Vacant
 Assistant Officer-in-Charge N. P. Beaudoin

Fumigation Station and Laboratory, 785 Mill Street,

Officer-in-Charge J. E. King

Ontario*Toronto—**Plant Inspection Office, 21 Lombard Street,*

Officer-in-Charge C. Copeland
 Assistant Officer-in-Charge J. C. Paddon

Ottawa—

*Plant Inspection and Seed Potato Certification Office, Science Service Building,
 See "Headquarters Ottawa"*

*Guelph—**Plant Inspection and Seed Potato Certification Office, Ontario Agricultural College,*

Officer-in-Charge W. L. S. Kemp
 Assistant Officer-in-Charge A. E. Straby

*Barrie—**Seed Potato Certification Office, 91 Dunlop Street,*

Officer-in-Charge H. W. Whiteside
 Assistant Officer-in-Charge C. B. Scott

Ontario—Continued*Niagara Falls—**Plant Inspection Office, Federal Building,*

Officer-in-Charge.....R. W. Sheppard
 Assistant Officer-in-Charge.....F. W. Gregory

*London—**Plant Inspection and Seed Potato Certification Office, 441A Dominion Public Building,*

Officer-in-Charge.....F. J. Hudson
 Assistant Officer-in-Charge.....R. E. Sampson

Fumigation Unit, Science Service Laboratory, University Sub Post Office,

Officer-in-Charge.....H. A. U. Munro
 Assistant Entomologist.....E. J. Bond

*Windsor—**Plant Inspection Office, 507 Canada Building,*

Officer-in-Charge.....W. R. Lapp
 Assistant Officer-in-Charge.....W. R. Code

Manitoba*Winnipeg—**Plant Inspection and Seed Potato Certification Office, 722 Dominion Public Building,*

Officer-in-Charge.....D. J. Petty
 Assistant Officer-in-Charge.....W. M. Whiteway

Saskatchewan*Estevan—**Plant Inspection Office, Post Office Building,*

Officer-in-Charge.....P. C. Brown

Seed Potato Certification Office, Post Office Building,

Officer-in-Charge.....A. Charlebois

Alberta*Edmonton—**Seed Potato Certification Office, 207 Northern Building,*

Officer-in-Charge.....J. W. Marritt
 Assistant Officer-in-Charge.....E. C. Reid

*Lethbridge—**Plant Inspection Office, 410 Post Office Building,*

Officer-in-Charge.....R. P. Stogryn

British Columbia*Vancouver—**Plant Inspection Office, Federal Building, Vancouver*

Officer-in-Charge.....H. F. Olds
 Assistant Officer-in-Charge.....W. D. Touzeau
 Officer-in-Charge Bulb Certification.....R. J. N. Mayers

Seed Potato Certification Office, Federal Building,

Officer-in-Charge.....H. S. MacLeod
 Assistant Officer-in-Charge.....J. C. Hamilton

*Grand Forks—**Seed Potato Certification Office, Court House,*

Officer-in-Charge.....H. Crockard

*Victoria—**Plant Inspection Office, 203-4 Belmont Building,*

Officer-in-Charge.....W. de Macedo

Seed Potato and Bulb Certification Office, 203-4 Belmont Building,

Inspector.....N. B. Sieffert

EXPERIMENTAL FARMS SERVICE

HEADQUARTERS: CENTRAL EXPERIMENTAL FARM, OTTAWA

DIRECTOR—DR. E. S. HOPKINS

The Experimental Farms Service with headquarters at Ottawa, together with branch stations and laboratories in important agricultural regions throughout Canada, provides a broad program of experimental and research work in a wide field of agricultural problems. The Service is organized under the office of the Director with the following ten Divisions:—Animal Husbandry; Apiculture; Cereals; Economic Fibre; Field Husbandry, Soils and Agricultural Engineering; Forage Plants; Horticulture; Illustration Stations; Poultry; and Tobacco. These divisions, in addition to carrying on research at Ottawa co-ordinate the work in their particular field conducted on the branch stations throughout the country. Branch stations may specialize with reference to the type of agriculture practised in their districts, and experimental projects are undertaken in areas where the results will have direct application. The services of trained specialists at headquarters are available to all the branch stations, and discoveries at any station are adapted to other stations where they have prospect of success. This type of organization combines the advantages of centralized research with wide contact and co-operation with farmers and other agricultural agencies.

ADMINISTRATION

Director.....	Dr. E. S. Hopkins
Assistant to Director.....	H. C. Ensor
Research Officer (Projects).....	Dr. R. R. McKibbin
Research Officer (Projects).....	Dr. A. Deakin
Research Specialist.....	W. Dickson
Agricultural Architect.....	F. W. Graves
Agricultural Architect.....	H. H. Merrill
Accountant.....	B. W. Porter
Personnel Officer.....	C. J. Gillissie
Public Relations Officer.....	J. H. Leroux
Librarian.....	Miss M. A. Uhrich

ANIMAL HUSBANDRY DIVISION

This Division conducts experimental and research work relative to the production of beef cattle, dairy cattle, sheep, swine, horses and fur-bearing animals. Breeding, nutrition, housing and management are among the problems under investigation. Studies in the field of dairy research are also undertaken, including methods of producing clean milk and the manufacture of milk products.

Chief, Animal Husbandry Division.....	Dr. H. K. Rasmussen
Principal Animal Husbandman (Swine).....	E. B. Fraser
Senior Animal Husbandman (Beef Cattle).....	P. E. Sylvestre
Senior Animal Husbandman (Dairy Cattle).....	Vacant
Senior Animal Husbandman (Sheep).....	S. B. Williams
Senior Animal Husbandman (Dairy Cattle and Horses).....	V. S. Logan
Senior Animal Geneticist.....	F. K. Kristjansson
Animal Husbandman (Swine).....	C. G. Hickman
Dairy Specialist (Dairying).....	C. A. Gibson
Junior Animal Husbandman (Beef Cattle).....	B. MacCarthy
Junior Animal Husbandman (Sheep).....	W. H. Hough
Junior Animal Husbandman (Dairy Cattle).....	V. J. Miles

APICULTURE DIVISION

This Division conducts experimental and research work for the improvement of apicultural practices throughout the honey producing areas of Canada. Among the problems being investigated are wintering, management, breeding and the evaluation of protein supplement feeds for brood rearing. Investigations are conducted on honey, in relation to fermentation, pasteurization and to the improvement of honey-house equipment.

In co-operation with other divisions of the department, special attention is given to the problems of disease with bees, to the value of honeybees in relation to seed and fruit production and to the toxicity of various insecticides to honeybees under field conditions.

Chief Apiculture Division.....	C. A. Jamieson
Senior Apiculturist.....	E. Braun
Junior Apiculturist.....	G. H. Austin
Junior Apiculturist.....	T. Pankiw

CEREAL DIVISION

The activities of the Cereal Division embrace the breeding and selection of wheat, oats, barley, flax, and such miscellaneous crops as beans, peas, buckwheat, and safflower.

Testing varieties and strains of these cereal hybrids and selections in comparison with named varieties forms an important phase of the work and involves evaluating their various qualities, such as early maturity, straw strength, resistance to such disease as leaf rust, and stem rust, loose smut, bunt mildew and other diseases particularly damaging to the respective cereals. Special milling and baking quality studies are made in the case of wheat varieties in respect to their suitability for the bread and pastry flour trade. Tests are made on the feeding quality of oats and the malting of barley varieties. Flax varieties are tested for their iodine content and their suitability for the paint and varnish trade.

Other activities of this Division include the investigation of special problems which have a bearing on cereal breeding and development work.

Chief, Cereal Division.....	Dr. C. H. Goulden
Principal Cerealist (Winter Wheat and Wheat Quality)...	A. G. O. Whiteside
Principal Cerealist (Oats).....	R. A. Derick
Senior Cerealist (Spring Wheat).....	J. G. C. Fraser
Senior Cerealist (Barley and Peas).....	P. R. Cowan
Senior Cerealist (Flax, Beans).....	Dr. W. G. McGregor
Senior Cerealist (Barley).....	Dr. D. G. Hamilton
Senior Cerealist (Spring Wheat).....	F. Gfeller
Junior Cerealist (Oats).....	F. J. Zillinsky
Junior Cerealist (Flax, Beans).....	D. R. Hansen
Technician (Milling and Baking).....	H. Miller
Technician (Winter Wheat).....	J. Edgar
Statistician.....	G. Ballantine

FIBRE DIVISION

This Division conducts investigational work relating to the production of fibre crops in Canada, and studies problems in the processing and marketing of these fibres. Experimental work, mainly with flax, includes the testing of a large number of varieties selected in this country or introduced from other countries, plant breeding and selection, rotations, commercial fertilizers, machinery, weed control, and other work with various cultural and processing practices.

Chief, Fibre Division.....	R. J. Hutchinson
Agronomist.....	L. A. Cabana

FIELD HUSBANDRY, SOILS AND AGRICULTURAL ENGINEERING DIVISION

The work of this Division is conducted under three headings. Field Husbandry studies cover the adaptation of crops to various conditions as well as crop rotations and crop sequence. Methods of planting, cultivation, harvesting and storage of crops, weed control and pasture management are other matters under investigation.

Soil surveys are conducted by the Soils Section in co-operation with each of the provinces and in the territories of Northern Canada. Soils are classified according to type and productivity rating. Research is in progress on the nature

and formation of soils, the relation of climate to soils, crop zonation, and saline soils. Investigations in the use of manure, commercial fertilizers, green manure, and soil amendments to increase soil productivity constitute a major field of work. Wind and water erosion control studies are also undertaken at a number of stations.

In the Soil Research Laboratory at Swift Current, laboratory investigations include work on soil moisture and temperature relations, effect on shelter-belts, soil organic matter, wind and water erosion, occurrence of selenium and other soil problems.

Agricultural engineering, investigations concern the use, efficiency, and cost of operating farm machinery. Other fields of study include drainage and irrigation, farm power and ventilation of farm buildings.

Chief, Field Husbandry Division.....Dr. P. O. Ripley

Field Husbandry and Soil Sections

Principal Pedologist.....Dr. A. Leahey
Principal Pedologist.....Dr. P. C. Stobbe
Senior Agronomist (Soil Management East).....A. J. MacLean
Senior Agronomist (Soil Management West).....K. W. Hill
Agronomist (Weed Control).....G. Knowles
Agronomist (Pasture Management).....S. M. Donaldson
Agronomist (Soil Fertility).....W. E. Cordukes
Junior Agronomist (Projects and Records).....N. Gordon
Pedologist.....J. Millette
Cartographer.....H. Nicol

Agricultural Engineering Section

Senior Agricultural Engineer.....J. M. Armstrong
Senior Agricultural Engineer.....W. Kalbfleisch
Agricultural Engineer.....D. J. Cooper
Junior Agricultural Engineer.....A. I. Magee
Junior Agricultural Engineer.....J. W. White

Soil Survey Field Staff

Prince Edward Island—Experimental Station, Charlottetown

Pedologist.....G. B. Whiteside
Junior Pedologist.....J. I. MacDougall

Nova Scotia—Agricultural College, Truro

Pedologist.....D. B. Cann

New Brunswick—University of New Brunswick, Fredericton

Pedologist.....R. E. Wicklund
Junior Pedologist.....K. Langmaid
Junior Pedologist.....S. W. Reeder

Quebec—Macdonald College

Pedologist.....P. Lajoie
Junior Pedologist.....J. J. L. Leclerc

—Agricultural College, Ste. Anne de la Pocatiere

Pedologist.....R. Baril
Junior Pedologist.....B. Rochefort

Ontario—Ontario Agricultural College, Guelph

Pedologist.....J. E. Gillespie
Pedologist.....D. W. Hoffman
Junior Pedologist.....A. B. Olding

Manitoba—University of Manitoba, Winnipeg

Senior Pedologist.....W. A. Ehrlich
Pedologist.....E. A. Poyser
Junior Pedologist.....L. E. Pratt

Saskatchewan—University of Saskatchewan, Saskatoon

Senior Pedologist.....	H. C. Moss
Pedologist.....	J. S. Clayton
Pedologist.....	W. K. Janzen
Junior Pedologist.....	R. J. St. Arnaud

Alberta—University of Alberta, Edmonton

Senior Pedologist.....	W. E. Bowser
Pedologist.....	T. W. Peters
Pedologist.....	F. W. Schroer
Junior Pedologist.....	J. Leat
Junior Pedologist.....	A. A. Kjearsgaard

British Columbia—University of British Columbia, Vancouver

Senior Pedologist.....	L. Farstad
Pedologist.....	A. P. Tzogoeff
Junior Pedologist.....	T. M. Lord
Junior Pedologist.....	J. H. Day

FORAGE PLANTS DIVISION

This division is concerned with the improvement of hay and pasture plants. While research is chiefly in the field of plant breeding, many different phases of field experimental work are in progress. Among these are included the testing of species, varieties and strains, both domestic and foreign; pasture and rangeland investigations; methods relating to seed production of legume crops in particular, and to cross pollinated species in general; foundation stock seed multiplication and processing, and various phases of turf grasses research.

Work relating to the development of improved varieties is concentrated chiefly at the Central Experimental Farm, Ottawa, and at the Dominion Forage Crops Laboratory, Saskatoon, Sask.

Chief, Forage Plants Division.....	Dr. T. M. Stevenson
Principal Agrostologist (Corn, Soybeans, and Sugar Beets —breeding and related research).....	Dr. F. Dimmock
Principal Cytogeneticist (Cytological Investigations, Genetics, Induced Polyploidy, and Plant Introduc- tions).....	Dr. J. M. Armstrong
Principal Agrostologist (Grass Breeding, Seed Produc- tion and Related Research).....	R. M. MacVicar
Senior Agrostologist (Root Breeding, Statistics, Hay and Pasture Investigations and Related Research).....	F. S. Nowosad
Senior Agrostologist (Turf-grass—Breeding and Research, Weed Control and Chemical Research).....	J. H. Boyce
Senior Agrostologist (Alfalfa and Clover Breeding, and Related Research).....	H. A. McLennan
Senior Agrostologist (Grass Breeding and Related Research).....	W. R. Childers
Agrostologist (Corn, Soybeans, and Sugar Beets).....	Dr. F. S. Warren
Junior Agrostologist (Grass Breeding and Seed Produc- tion).....	D. R. Gibson
Junior Agrostologist (Cytology and Forage Plant Intro- ductions).....	R. W. Robertson
Junior Agrostologist (Pastures).....	L. S. Donovan

HORTICULTURE DIVISION

This Division deals with the problems encountered in the culture of fruits, vegetables, and ornamentals. It embraces the breeding of orchard and small fruits, vegetables, and ornamentals. It covers the testing and evaluation of new varieties originated by this Division and other plant breeders. It conducts field or laboratory work in nutritional studies, plant physiology, genetics, cytology, and histology. This Division also operates a low-temperature research laboratory for the purpose of studying problems on the storage of horticultural crops, and a fruit and vegetable products laboratory to investigate the problems of processing these food crops.

A substation is operated at Ste. Clothilde, Que., to study the problems of growing horticultural crops in the mucklands of that area. At Smithfield, Ont., a second substation examines those problems encountered in the culture of fruits and vegetables with emphasis on canning crops.

Chief, Horticulture Division	M. B. Davis
Principal Horticulturist (Plant Physiology)	Dr. H. Hill
Principal Horticulturist (Fruits) and Officer-in-Charge, Substation, Smithfield, Ont.	D. S. Blair
Principal Horticulturist (Vegetable Crops)	W. Ferguson
Principal Horticulturist (Cytogenetics)	Dr. A. W. S. Hunter
Senior Horticulturist (Vegetable Crops)	L. H. Lyall
Senior Horticulturist (Low Temperature Research)	W. R. Phillips
Senior Horticulturist (Ornamentals)	R. W. Oliver
Senior Horticulturist (Co-operative Experiments) and Officer-in-Charge, Substation, Ste. Clothilde, Que.	F. S. Browne
Senior Horticulturist (Biometrics and Statistics)	Dr. H. B. Cannon
Senior Horticulturist (Histology and Morphology)	Dr. Mary MacArthur
Senior Horticulturist (Floriculture and Greenhouse Crops)	Dr. A. P. Chan
Senior Food Technologist (Fruit and Vegetable Pro- cessing)	P. A. Buck
Senior Horticulturist (Potato Specialist)	N. M. Parks
Artist	A. Kellett
Senior Horticulturist (Low Temperature Research)	P. A. Poapst
Senior Horticulture (Native Fruits at Kentville, N.S.)	E. L. Eaton
Horticulturist (Vegetable Crops)	J. J. Jasmin
Horticulturist	L. P. Spangelo
Horticulturist (Fruit Tree Investigations, Bedford, Que.)	P. Roy
Horticulturist (Ornamentals)	D. F. Cameron
Junior Horticulturist (Plant Physiology)	H. B. Heeney
Junior Horticulturist	S. H. Nelson
Junior Horticulturist (Fruit Investigations at Morden, Man.)	R. W. Birch
Junior Horticulturist (Biometrics and Statistics)	H. F. Beingsner
Food Technologist (Fruits and Vegetable Processing)	P. N. Townsley
Junior Horticulturist (Cytogenetics)	G. W. R. Walker

Co-operative Horticultural Projects

Certain officers of the Horticultural Division are employed on projects conducted in co-operation with provincial institutions, as indicated below.

Horticulturist (Potato Breeding Investigations in Co- operation with the Ontario Agricultural College, Guelph, Ont.)	N. R. Thomson
Junior Horticulturist (Vegetable Crop Experiments in Co-operation with the Provincial Horticultural Station, Vineland, Ont.)	I. D. W. Smith
Junior Horticulturist (Vegetable Crop Experiments in Co-operation with the University of Manitoba, Winnipeg, Man.)	H. R. Hikida
Junior Horticulturist (Horticultural Experiments in Co-operation with the University of Saskatchewan, Saskatoon, Sask.)	P. O. Bergh
Junior Horticulturist (Fruit Investigations in Co-opera- tion with the University of Alberta, Edmonton, Alta.)	W. D. Evans
Junior Horticulturist (Vegetable Crop Experiments in Co- operation with the University of British Columbia, Vancouver, B.C.)	J. B. Tier

ILLUSTRATION STATIONS DIVISION

This Division undertakes experimental and fact-finding studies relating to agricultural production problems in areas distantly removed from the Experimental Farms in each province. Illustration Stations are located on privately owned farms and are operated on the basis of a co-operative agreement with the owner. These station farms are representative of variations occurring within the major soil and climatic zones, and the experiments are designed to determine the effect of these conditions on farm organization and management, fertilizer

treatments, crop varieties, economics of production resulting from irrigation, contour and grass farming, and weed control, as well as the efficient use of farm machinery.

The experimental work on these stations is conducted by a supervisor in co-operation with the technical personnel at each Experimental Farm.

Officers Located on the Central Experimental Farm, Ottawa

Chief, Division of Illustration Stations.....	J. C. Moynan
Associate Chief, Division of Illustration Stations.....	A. E. Barrett
Agronomist (Illustration Stations).....	R. R. Cairns
Agronomist (Illustration Stations, Western Quebec).....	L. J. Bellefleur
Agronomist (Illustration Stations, Eastern Ontario).....	L. M. Casserly
Agronomist (Illustration Stations, Manitoulin District).....	C. B. Dalton
Agronomist (Illustration Stations, Fort William District).....	J. K. Knights

Officers Located on Branch Experimental Stations

Junior Agronomist (Illustration Stations, St. John's, Nfld.).....	M. F. Gillis
Agronomist (Illustration Stations, Charlottetown, P.E.I.).....	W. N. Black
Agronomist (Illustration Stations, Kentville, N.S.).....	F. B. Kinsman
Junior Agronomist (Illustration Stations, Nappan, N.S.).....	F. Calder
Agronomist (Illustration Stations, Fredericton, N.B.).....	E. A. Grant
Agronomist (Illustration Stations, Ste. Anne de la Poca- tiere, Que.).....	R. Caron
Junior Agronomist (Illustration Stations, Normandin, Que.).....	G. H. Harvey
Agronomist (Illustration Stations, Lennoxville, Que.).....	J. O. P. Allard
Junior Agronomist (Illustration Stations, Kapuskasing, Ont.).....	R. Bernier
Agronomist (Illustration Stations, Brandon, Man.).....	B. J. Gorby
Junior Agronomist (Illustration Stations, Brandon, Man.).....	D. A. Duncan
Agronomist (Illustration Stations, Indian Head, Sask.).....	R. N. McIver
Agronomist (Illustration Stations, Melfort, Sask.).....	K. E. Bowren
Junior Agronomist (Illustration Stations, Melfort, Sask.).....	A. R. Mack
Agronomist (Illustration Stations, Scott, Sask.).....	C. H. Keys
Junior Agronomist (Illustration Stations, Scott, Sask.).....	W. B. Towill
Agronomist (Illustration Stations, Swift Current, Sask.).....	N. A. Korven
Junior Agronomist (Illustration Stations, Swift Current, Sask.).....	J. H. Wiley
Junior Agronomist (Illustration Stations, Lethbridge, Alta.).....	A. D. Smith
Agronomist (Illustration Stations, Lacombe, Alta.).....	A. W. Wilton
Agronomist (Illustration Stations, Lacombe, Alta.).....	L. J. Anderson
Agronomist (Illustration Stations, Beaverlodge, Alta.).....	D. J. Macdonald
Junior Agronomist (Illustration Stations, Beaverlodge, Alta.).....	A. N. F. Longair
Agronomist (Illustration Stations, Creston, B.C.).....	F. M. Chapman
Agronomist (Illustration Stations, Agassiz, B.C.).....	R. M. Hall
Junior Agronomist (Illustration Stations, Saanichton, B.C.).....	E. H. Gardner
Junior Agronomist (Illustration Stations, Prince George, B.C.).....	B. C. L. Appleby

POULTRY DIVISION

This division conducts research into problems of genetics, nutrition, and management of poultry.

The work includes a study of the most suitable breeding methods for improvement of egg production as well as for meat type. A new breed has been developed and is under test for possible use in producing an efficient commercial meat chicken. Breeding problems peculiar to the handling of other species such as turkeys, geese, and ducks are under experiment.

Nutrition problems related to growth, egg production, fertility, hatchability, and viability are continuously under investigation. Two relatively new and promising lines of research involve the investigation of the role of the sex hormones and antibiotics in the nutrition of the species.

Under management are considered various methods of incubation, brooding, rearing, feeding equipment, housing, and ventilation, as well as the economics involved therein. Marketing problems, as influenced by genetics, nutrition, and management, are also a subject of investigation.

Chief, Poultry Division.....	H. S. Gutteridge
Senior Poultry Husbandman.....	A. S. Johnson
Senior Poultry Geneticist.....	Dr. R. S. Gowe
Senior Poultry Nutritionist.....	Dr. J. R. Aitken
Junior Poultry Geneticist.....	E. S. Merritt

TOBACCO DIVISION

This Division is responsible for research and experimental work in connection with the development of tobacco production in Canada. Investigational activities include varietal testing, plant breeding, and the development of new varieties. Cultural and curing methods as well as methods of harvesting tobacco are studied. The effect of fertilizers in relation to soil analysis constitutes a major problem. The Division also assists in the development of markets and maintains a statistical record of all pertinent economic data.

Physiological and chemical investigations are being conducted to elucidate some of the fundamental relationships involved in the production of high quality leaf. The metabolism of the leaf during growth and the biochemical changes during curing and fermentation are being intensively studied. The physiological aspects of tobacco nutrition are being investigated using pure chemicals under controlled conditions in the greenhouse to obtain information not obtainable from field experiments.

Chief, Tobacco Division.....	Dr. N. A. MacRae
Senior Plant Nutritionist.....	E. T. McEvoy
Senior Agronomist.....	L. E. Gilmore
Senior Plant Geneticist.....	F. H. White

BRANCH STATIONS AND LABORATORIES

In order to obtain information applicable to the wide range of soil and climatic conditions throughout Canada, 28 Branch Stations and 20 Substations have been established in the more important agricultural regions. In addition, there are 14 special laboratories. Most of these laboratories are located on the experimental stations although some are at the provincial agricultural colleges. The laboratories undertake special investigations in connection with problems associated with special types of farming or branches of agriculture in regions where these problems exist.

Soil survey work in Canada is conducted co-operatively by each of the provinces and the Experimental Farms Service. The Experimental Farm soil surveyors are located in most instances at the provincial agricultural colleges.

Newfoundland

Experimental Station, St. John's

Officer-in-Charge.....	I. J. Green
Junior Agronomist (Illustration Stations).....	M. F. Gillis

Prince Edward Island

Experimental Station, Charlottetown

Superintendent.....	R. C. Parent
Senior Poultry Husbandman.....	B. F. Tinney
Senior Agronomist (Field Husbandry and Forage)...	D. C. Schurman
Horticulturist.....	G. C. Warren
Agronomist (Illustration Stations).....	W. N. Black
Agronomist (Soil Surveys and Soil Fertility).....	G. B. Whiteside
Junior Agronomist (Soil Fertility and Animal Husbandry).....	G. W. Boswall
Junior Cerealist.....	R. B. MacLaren

Experimental Fur Farm, Summerside

Superintendent.....Dr. C. K. Gunn

Nova Scotia*Experimental Station, Kentville*

Superintendent.....Vacant
 Geneticist (Fruits).....Dr. C. J. Bishop
 Senior Horticulturist (Field Investigations).....Vacant
 Horticulturist (Vegetables).....E. W. Chipman
 Junior Horticulturist (Small Fruits).....D. L. Craig
 Senior Horticulturist (Storage and Nutrition).....C. A. Eaves
 Senior Horticulturist (Tree Fruits).....R. P. Longley
 Horticulturist (Processed Products).....G. W. Hope
 Agronomist (Illustration Stations).....F. B. Kinsman
 Agronomist (Soil Fertility).....J. S. Leefe
 Poultry Husbandman.....B. F. Cheney

Experimental Farm, Nappan

Superintendent.....W. W. Baird
 Animal Husbandman (Breeding and Nutrition).....C. D. T. Cameron
 Senior Agronomist (Field Husbandry and Soil Fertility).....E. T. Goring
 Agronomist (Cereals and Forage Crops).....J. D. E. Sterling
 Junior Agronomist (Field Husbandry and Soil Fertility).....L. P. Jackson
 Poultry Husbandman (Poultry Nutrition).....T. M. MacIntyre
 Junior Poultry Husbandman (Breeding and Feeding).....M. H. Jenkins
 Junior Agronomist (Illustration Stations).....F. Calder
 Junior Agronomist (Cereal and Forage).....J. E. Langille

New Brunswick*Experimental Station; Fredericton*

Superintendent.....S. A. Hilton
 Senior Horticulturist.....L. C. Young
 Horticulturist (Fruits and Vegetables).....R. G. White
 Junior Horticulturist (Small Fruits).....W. B. Collins
 Horticulturist (Potato Breeding).....H. T. Davies
 Poultry Husbandman.....L. Griesbach
 Junior Animal Husbandman.....R. Levick
 Agronomist (Field Husbandry and Forage Crops).....T. C. Chiasson
 Agronomist (Soil Fertility).....A. A. MacLean
 Agronomist (Illustration Stations).....E. A. Grant
 Junior Agronomist (Field Husbandry).....C. F. Everett

Experimental Station, McDonald's Corner

Officer-in-Charge (Horticulture).....R. G. White

Experimental Substation, Tower Hill

Officer-in-Charge (Blueberry Production).....R. G. White

Experimental Substation, Alma

Officer-in-Charge.....L. C. Young

Quebec*Experimental Substation, St. Charles de Caplan*

Officer-in-Charge.....J. G. Provencher

Experimental Station, Ste. Anne de la Pocatiere

Superintendent.....J. R. Pelletier
 Horticulturist.....B. Forest
 Agronomist (Field Husbandry).....J. E. Godbout
 Agronomist (Forage and Cereal).....F. M. Gauthier
 Senior Geneticist (Forage Crops).....Dr. L. Dessureaux
 Junior Agronomist (Soil Fertility).....Dr. G. J. Ouellette
 Agronomist (Illustration Stations).....R. Caron
 Junior Animal Husbandman.....J. P. Lemay

Quebec—Continued*Experimental Station, Normandin*

Superintendent.....	J. A. Belzile
Cerealist.....	J. E. Laplante
Agronomist (Forage Crops and Field Husbandry)....	L. C. Larose
Junior Agronomist (Illustration Stations).....	G. H. Harvey

Experimental Station, Lennôxville

Superintendent.....	Vacant
Senior Agronomist (Cereals and Forage Crops).....	P. Gervais
Senior Agronomist (Field Husbandry).....	W. S. Richardson
Senior Animal Husbandman.....	Dr. E. Mercier
Agronomist (Cereals and Forage Crops).....	E. A. Ouellette
Junior Animal Husbandman.....	G. Lalande
Agronomist (Soil Fertility).....	B. J. Finn
Agronomist (Illustration Stations).....	J. O. P. Allard

Experimental Station, L'Assomption

Superintendent.....	R. Bordeleau
Senior Horticulturist.....	C. E. Ste. Marie
Senior Agronomist (Tobacco).....	J. Richard
Agronomist (Soils and Fertilizers).....	J. A. Belanger
Agronomist (Field Husbandry and Forage Crops)....	J. S. F. Coiteux
Horticulturist (Dutch Elm Disease).....	C. E. Ouellet
Junior Horticulturist.....	J. J. N. Laliberte

Experimental Substation, Ste. Clothilde

Officer-in-Charge (Vegetable Production on Muck Soils).....	F. S. Browne
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Ontario*Experimental Station, Harrow*

Superintendent.....	H. F. Murwin
Senior Agronomist (Tobacco).....	R. J. Haslam
Senior Agrostologist (Corn, Soybeans).....	Dr. G. F. H. Buckley
Agronomist (Soil Fertility).....	J. M. Fulton
Senior Horticulturist (Fruit).....	T. B. Harrison
Animal Husbandman.....	B. S. Hoegstedt
Agrostologist (Corn).....	C. G. Mortimore
Poultry Husbandman.....	W. F. Mountain
Horticulturist (Vegetables).....	L. F. Ounsworth
Agrostologist (Soybeans).....	C. W. Owen
Agronomist (Tobacco).....	W. A. Scott
Junior Agronomist (Tobacco).....	E. Walker

Experimental Substation, Delhi

Officer-in-Charge (Tobacco).....	L. S. Vickery
Agronomist (Tobacco).....	K. T. Grant
Junior Agronomist (Soil Fertility).....	I. M. Elliott

Experimental Substation, Woodslee

Officer-in-Charge (Soils, Crops).....	J. W. Aylesworth
Junior Agronomist (Soil Fertility).....	E. Bolton

Experimental Substation, Smithfield

Officer-in-Charge (Pomology).....	D. S. Blair
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Experimental Station, Kapuskasing

Superintendent.....	F. X. Gosselin
Agronomist (Field Husbandry, Cereals and Forage Crops).....	M. R. Wiancko
Junior Animal Husbandman (Animal Husbandry, Poultry, and Apiculture).....	L. A. Charette
Junior Agronomist (Illustration Stations).....	R. Bernier

Manitoba*Experimental Station, Morden*

Superintendent.....	W. R. Leslie
Senior Agronomist (Cereals, Field Husbandry, Animal Husbandry).....	W. J. Breakey

Manitoba—Continued

Senior Horticulturist (Vegetable Crops).....	C. Walkof
Senior Horticulturist (Fruit Crops).....	C. R. Ure
Junior Horticulturist.....	V. W. Nuttall
Food Technologist (Fruits and Vegetable Products).....	A. L. Shewfelt
Dietitian.....	Miss E. B. Stevenson
Agrostologist (Forage Crops).....	W. A. Russell
Junior Food Technologist (Laboratory).....	D. R. Brown

Laboratory of Cereal Breeding, Winnipeg

Officer-in-Charge (Cereal Breeding).....	Dr. R. F. Peterson
Senior Cerealist (Oats).....	J. N. Welsh
Senior Cerealist (Wheat).....	A. B. Campbell
Cerealist (Durum Wheat Breeding, Processing Seed of Cereals).....	A. B. Masson
Junior Cerealist (Flax).....	A. E. Hanna
Junior Cerealist.....	R. C. McGinnis

Pilot Flax Mill and Laboratory, Portage la Prairie

Officer-in-Charge.....	E. M. MacKey
Chemist.....	Dr. W. O. Chubb

Experimental Farm, Brandon

Superintendent.....	R. M. Hopper
Senior Agronomist (Cereals).....	W. H. Johnston
Senior Agronomist (Field Husbandry).....	D. A. Brown
Junior Agronomist (Field Husbandry).....	F. S. Gugin
Junior Agronomist (Cereals).....	D. R. Metcalfe
Agronomist (Illustration Stations).....	B. J. Gorby
Animal Husbandman.....	W. N. MacNaughton
Junior Agronomist (Illustration Stations).....	D. A. Duncan
Junior Agronomist (Forage Crops).....	J. D. Truscott

Reclamation Station, Melita

Agronomist (Field Husbandry).....	W. K. Dawley
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Saskatchewan*Experimental Farm, Indian Head*

Superintendent (Agronomy).....	J. G. Davidson
Animal Husbandman (Animal Husbandry).....	W. W. Cram
Senior Agronomist (Field Husbandry).....	E. V. McCurdy
Agronomist (Forage Crops).....	E. Buglass
Agronomist (Illustration Stations).....	R. N. McIver
Junior Poultry Husbandman.....	A. P. Piloski
Junior Horticulturist.....	W. A. Russell

Forest Nursery Station, Indian Head

Superintendent.....	J. Walker
Plant Breeder (Tree Improvement).....	W. H. Cram
Plant Physiologist (Tree Physiology).....	J. Wilner
Junior Plant Breeder (Tree Planting).....	A. W. Crookshanks

Forest Nursery Station, Sutherland

Superintendent.....	W. L. Kerr
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Experimental Substation, Regina

Officer-in-Charge.....	J. R. Foster
Junior Agronomist.....	E. S. Molberg
Junior Agronomist.....	E. A. Hurd

Experimental Station, Melfort

Superintendent.....	H. E. Wilson
Horticulturist.....	R. H. Anderson
Agronomist (Cereals and Forage Crops).....	H. R. Ballantyne
Agronomist (Illustration Stations).....	K. E. Bowren
Junior Agronomist (Field Husbandry).....	B. K. McDonald
Junior Agronomist (Illustration Stations).....	A. R. Mack
Junior Agronomist (Forage Crops).....	D. A. Cooke
Junior Animal Husbandman.....	P. Rothery

Saskatchewan—Continued*Forage Crops Laboratory, Saskatoon*

Officer-in-Charge.....	Dr. W. J. White
Senior Agrostologist (Alfalfa Breeding).....	Dr. J. L. Bolton
Senior Agrostologist (Grass Breeding).....	Dr. R. P. Knowles
Agrostologist (Clover).....	J. E. Greenshields

Experimental Station, Scott

Superintendent.....	G. D. Matthews
Animal Husbandman (Animal Husbandry and Poultry).....	E. VanNise
Senior Cerealist (Cereals and Forage Crops).....	A. G. Kusch
Agronomist (Field Husbandry).....	H. A. Friesen
Agronomist (Illustration Stations).....	C. H. Keys
Horticulturist.....	Vacant
Junior Agronomist (Illustration Stations).....	W. B. Towill
Junior Agrostologist.....	D. E. Forsberg
Junior Agronomist (Soil Fertility).....	H. Ukrainetz

Experimental Station, Swift Current

Superintendent.....	G. N. Denike
Senior Agronomist (Field Husbandry and Sub-stations).....	P. J. Janzen
Agronomist (Weed Control).....	J. P. Ficht
Agronomist (Illustration Stations).....	N. A. Korven
Junior Agronomist (Illustration Stations).....	J. H. Wiley
Senior Agrostologist (Range).....	J. B. Campbell
Agrostologist (Irrigation).....	Vacant
Agrostologist (Plant Breeding).....	D. H. Heinrichs
Junior Agrostologist (Range).....	M. R. Kilcher
Junior Agrostologist (Range).....	R. W. Lodge
Junior Agrostologist (Cytology).....	Miss B. E. Murray
Senior Agricultural Engineer.....	J. L. Thompson
Junior Agricultural Engineer (Harvest Equipment).....	M. E. Dodds
Agricultural Engineer (Irrigation).....	H. C. Korven
Junior Agricultural Engineer (Power).....	J. G. Kemp
Agricultural Engineer (Haying).....	A. Wenhardt
Agricultural Engineer (Structures).....	G. B. Harrison
Senior Poultry Husbandman (Poultry Nutrition and Horticulture).....	R. M. Blakely
Animal Nutritionist (Poultry).....	H. I. MacGregor
Cerealist.....	D. S. McBean
Animal Husbandman.....	P. I. Myhr
Junior Agrostologist.....	K. F. Best
Junior Agrostologist.....	D. W. L. Read
Junior Agrostologist.....	W. J. Pigden

Soil Research Laboratory, Swift Current

Officer-in-Charge.....	Dr. J. L. Doughty
Soil Physicist (Soil Moisture).....	Dr. W. J. Staple
Soil Physicist (Soil Moisture).....	J. J. Lehane
Soil Physicist (Soil Erosion).....	F. Bisal
Soil Chemist (Soil Fertility).....	F. G. Warder
Soil Chemist (Analysis).....	W. C. Hinman
Senior Soil Bacteriologist.....	Dr. D. F. Cook

Alberta*Dominion Range Experiment Station, Manyberries*

Officer-in-Charge.....	H. F. Peters
Agrostologist.....	W. A. Hubbard
Junior Agrostologist (Range).....	S. Smoliak

Experimental Station, Lethbridge

Superintendent.....	A. E. Palmer
Senior Agronomist (Field Husbandry).....	H. Chester
Agronomist (Weeds).....	J. J. Sexsmith
Agronomist (Machinery).....	D. T. Anderson
Junior Agronomist (Soil Fertility).....	U. J. Pittman
Junior Agronomist (Cereals).....	H. McKenzie
Agronomist (Field Crops).....	P. H. Walker

Alberta—Continued

Junior Agronomist (Illustration Stations).....	A. D. Smith
Agronomist (Illustration Stations).....	F. M. Chapman
Senior Animal Husbandman (Animal Husbandry and Poultry).....	H. J. Hargrave
Senior Animal Husbandman (Nutrition).....	Dr. F. Whiting
Animal Husbandman (Wool Technology).....	S. B. Slen
Poultry Geneticist.....	W. J. Wakeley
Senior Irrigationist.....	W. L. Jacobson
Senior Cerealist.....	Dr. M. N. Grant
Cerealist (Seed Production and Special Cereal Crops).....	W. D. Hay
Cerealist (Geneticist—Winter Wheat).....	J. E. Andrews
Cerealist (Geneticist—Oats and Barley).....	S. A. Wells
Junior Cerealist (Spring Wheat).....	Miss A. M. Wall
Senior Agrostologist.....	R. W. Peake
Agrostologist (Range Forage).....	A. Johnston
Junior Agrostologist (Alfalfa).....	R. K. Downey
Horticulturist.....	I. L. Nonnecke
Junior Horticulturist.....	W. E. Torfason
Chemist (Animal Nutrition).....	L. M. Bezeau
Junior Agronomist (Irrigation).....	L. J. Sonmor
Food Technologist.....	G. Strachan
Junior Agrostologist (Pastures).....	D. B. Wilson

Range Experiment Substation, Scandia

Officer-in-Charge.....	R. D. Clark
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Experimental Station, Lacombe

Superintendent.....	G. E. DeLong
Senior Animal Husbandman.....	J. G. Stothart
Senior Agronomist (Cereals).....	A. D. McFadden
Agronomist (Field Husbandry).....	H. W. Leggett
Agronomist (Forage Crops).....	H. B. Stelfox
Horticulturist.....	H. T. Allen
Agronomist (Illustration Stations).....	A. W. Wilton
Agronomist (Illustration Stations).....	L. J. Anderson
Animal Husbandman (Animal Husbandry and Poultry).....	H. T. Fredeen

Experimental Station, Beaverlodge

Superintendent.....	E. C. Stacey
Senior Agronomist.....	C. H. Anderson
Agronomist.....	A. C. Carder
Agronomist (Illustration Stations).....	D. J. Macdonald
Junior Agronomist (Illustration Stations).....	A. N. F. Longair
Cerealist.....	A. A. Guitard
Junior Horticulturist.....	V. Chanasyk
Junior Agronomist (Field Husbandry).....	M. Martinuik
Junior Animal Husbandman.....	A. R. Jones

Experimental Substation, Fort Vermilion

Officer-in-Charge.....	V. J. Lowe
Junior Agronomist.....	W. O. Klatt

British Columbia*Experimental Station, Summerland*

Superintendent.....	Dr. R. C. Palmer
Senior Food Technologist (Fruits and Vegetable Products).....	F. E. Atkinson
Senior Food Technologist (Fruits and Vegetable Products).....	Dr. C. C. Strachan
Senior Horticulturist (Fruit Harvesting and Storage).....	Dr. D. V. Fisher
Senior Horticulturist (Fruit Breeding and Root Stocks).....	A. J. Mann
Senior Horticulturist (Orchard Nutrition and Irrigation).....	Dr. J. C. Wilcox
Junior Horticulturist (Vegetable Breeding and Nutrition).....	L. G. Denby
Junior Horticulturist (Orchard Nutrition and Irrigation).....	J. L. Mason

British Columbia—Continued

Junior Agronomist (Forage Crops and Dairy Cattle)...J. E. Miltimore
 Junior Food Technologist (Fruit and Vegetable Products).....A. W. Moyls
 Junior Horticulturist (Fruit Harvesting and Storage)...S. W. Porritt

Experimental Substation, Kelowna

Officer-in-Charge.....Dr. J. C. Wilcox

Dominion Range Experiment Station, Kamloops

Officer-in-Charge.....T. G. Willis
 Agrostologist (Rangeland Studies).....A. McLean
 Animal Husbandman.....M. A. MacDonald

Experimental Farm, Agassiz

Superintendent.....W. H. Hicks
 Senior Agronomist (Plant Breeding).....Dr. M. F. Clarke
 Senior Horticulturist.....Dr. T. H. Anstey
 Cerealist.....D. K. Taylor
 Agronomist (Illustration Stations).....R. M. Hall
 Agronomist (Soil Fertility).....H. F. Fletcher
 Junior Agrostologist.....W. E. P. Davis
 Junior Horticulturist.....J. A. Freeman

Experimental Substation, Boundary Bay

Officer-in-Charge.....Dr. T. H. Anstey

Experimental Station, Saanichton

Superintendent.....J. J. Woods
 Senior Agricultural Engineer.....H. J. Kemp
 Horticulturist (Fruits and Ornamentals).....E. R. Hall
 Horticulturist (Bulbs).....J. H. Crossley
 Horticulturist (Vegetables, Vegetable Seed Crops)...R. M. Adamson
 Agronomist (Forage Crops).....R. H. Turley
 Soil Chemist (Soils and Plant Nutrition).....G. R. Webster
 Junior Agronomist (Illustration Stations).....E. H. Gardner

Experimental Station, Prince George

Superintendent.....F. V. Hutton
 Senior Agronomist (Forage, Field Husbandry, Cereals).....R. G. Savage
 Junior Agronomist (Forage, Field Husbandry, Cereals).....A. G. Wilton
 Junior Agronomist (Illustration Stations).....B. C. L. Appleby

Experimental Substation, Smithers

Superintendent.....W. T. Burns
 Junior Agronomist (Field Husbandry and Forage Crops).....J. V. Zacharias

Yukon*Experimental Substation, Whitehorse*

Officer-in-Charge.....J. W. Abbott

Northwest Territories*Experimental Substation, Fort Simpson*

Officer-in-Charge.....J. A. Gilbey

BRANCH LABORATORIES

In addition to the laboratories at the Central Experimental Farm, Ottawa, there are the following fourteen special branch laboratories:

Potato Breeding Laboratory,
 Dominion Experimental Station, Fredericton, N.B.
 Fruit and Vegetable Products and Low Temperature Laboratories,
 Dominion Experimental Station, Kentville, N.S.
 Poultry Nutrition Laboratory,
 Dominion Experimental Farm, Nappan, N.S.

- Dominion Cereal Breeding Laboratory,
University of Manitoba, Winnipeg, Man.
- Vegetable Products Laboratory,
Dominion Experimental Station, Morden, Man.
- Pilot Flax Mill and Laboratory,
Portage la Prairie, Man.
- Poultry Nutrition Laboratory,
Dominion Experimental Farm, Brandon, Man.
- Dominion Forage Laboratory,
University of Saskatchewan, Saskatoon, Sask.
- Agricultural Engineering Workshop and Laboratory,
Dominion Experimental Station, Swift Current, Sask.
- Dominion Soil Research Laboratory,
Dominion Experimental Station, Swift Current, Sask.
- Animal Nutrition Laboratory,
Dominion Experimental Station, Lethbridge, Alta.
- Wool Laboratory,
Dominion Experimental Station, Lethbridge, Alta.
- Vegetable Products and Sugar Beet Laboratory,
Dominion Experimental Station, Lethbridge, Alta.
- Fruit and Vegetable Products and Low Temperature Laboratories,
Dominion Experimental Station, Summerland, B.C.

PRODUCTION SERVICE

HEADQUARTERS: CONFEDERATION BLDG., OTTAWA

DIRECTOR—N. YOUNG

The Production Service includes the Health of Animals, the Plant Products, and the Livestock and Poultry Divisions. The Service coordinates the work of the federal and provincial field staffs in interpreting to farmers ways to profitable production derived from information with respect to the activities of the Experimental Farms and Science Services, and from the intimate association of the Marketing Service with agricultural commerce. The Production Service administers legislation designed to prevent the introduction and spread of diseases of animals, and to ensure freedom from disease in animals and animal products exported; to provide for the incorporation of purebred livestock associations; and to standardize the sale in the domestic market of meat and canned foods, seed, feeding stuffs, fertilizers, agricultural products, agricultural poisons, hay, straw, and binder twine. The functions of the several Divisions are indicated below.

ADMINISTRATION

Director.....	N. Young
Assistant to Director.....	L. A. Bissell
Accountant.....	H. A. Kelly
Personnel Officer.....	G. Labelle

HEALTH OF ANIMALS DIVISION

This Division is responsible for the administration of the Regulations made under the authority of the Animal Contagious Diseases Act, and the regulations governing the Inspection of Meats made under the authority of the Meat and Canned Foods Act.

Under the authority of the Animal Contagious Diseases Act, the movement of livestock and livestock products into and out of Canada is controlled for the purpose of preventing introduction into Canada of destructive animal diseases, and to prevent the exportation of diseased livestock, or diseased or unwholesome livestock products. This Act also provides for the control and eradication of

named and transmissible animal diseases within Canada, and for the operation of programs having as their objectives the eradication of non-reportable animal diseases such as bovine tuberculosis and brucellosis.

Under authority of the Meat and Canned Foods Act provision is made for the supervision of the operation of packing plants engaged in export trade, either inter-provincial or foreign, from the ante-mortem inspection of meat food animals to the proper labelling, packaging, and shipment of the finished product. No packing plant may engage in export trade unless under Departmental supervision. This is extended only to plants that meet sanitary requirements and whose volume of business is sufficient to justify supervision.

Ottawa

Veterinary Director General.....	Dr. T. Childs
Asst. Veterinary Director General.....	Dr. Orlan Hall
Chief Veterinarian, Meat Inspection.....	Dr. G. A. Rose
Chief Veterinarian, Animal Contagious Diseases.....	Dr. J. McL. Stuart
Associate Chief Veterinarian, Meat Inspection.....	Dr. C. G. Curdt
Associate Chief Veterinarian, Animal Contagious Diseases.....	Dr. K. F. Wells
Brucellosis and Veterinary Biologics Control.....	Dr. K. L. Douglas
Poultry Diseases.....	Dr. W. A. Moynihan
Head Clerk.....	D. C. Scafe

Maritimes Provinces (Including Newfoundland)

District Veterinarian.....	Dr. A. R. C. Lundie, 441 Post Office Building, Moncton, N.B.
Assistant District Veterinarian.....	Dr. R. J. McClenaghan, 441 Post Office Building, Moncton, N.B.

Quebec

District Veterinarian.....	Dr. J. N. L. Couture, 131 St. James Street West, Montreal 2, P.Q.
Assistant District Veterinarian.....	Dr. G. T. Labelle, 131 St. James Street West, Montreal 2, P.Q.

Ontario

District Veterinarian.....	Dr. Wm. Moynihan, 366 Keele Street, Toronto 9, Ontario.
Assistant District Veterinarian.....	Dr. A. P. Morris, 366 Keele Street, Toronto 9, Ontario.

Manitoba

District Veterinarian.....	Dr. R. H. Lay, 613 Dominion Public Bldg., Winnipeg, Man.
Assistant District Veterinarian.....	Dr. J. W. R. Fasken, 613 Dominion Public Bldg., Winnipeg, Man.

Saskatchewan

District Veterinarian.....	Dr. N. D. Christie, Post Office Bldg., Regina, Sask.
Assistant District Veterinarian.....	Dr. E. E. Carlson, Post Office Bldg., Regina, Sask.

Alberta

District Veterinarian.....	Dr. H. C. Storey, 414 Public Building, Calgary, Alberta.
Assistant District Veterinarian.....	Dr. I. Christian, Post Office Building, South Edmonton, Alta.

British Columbia

District Veterinarian.....	Dr. F. W. B. Smith, 602 Credit Foncier Bldg., 850 Hastings Street West, Vancouver, B.C.
Assistant District Veterinarian.....	Dr. J. E. Leblond, 602 Credit Foncier Bldg., 850 Hastings Street West, Vancouver, B.C.

England

Consulting Veterinarian.....	Sir Frank Ware, Canada House, Trafalgar Square, London, S. W. 1, England.
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PLANT PRODUCTS DIVISION

This Division administers Acts respecting seed, feeding stuffs, fertilizers, pest control products, hay and straw, flax fibres, and binder twine. The Division also carries out policies respecting the improvement and distribution of seeds, feeding stuffs, fertilizers, pesticides, and flax fibres.

The work is handled by three units: Inspection Services which administer the Acts and supervise promotional work; Laboratory Services which analyse samples taken for enforcing the Acts and for investigational purposes; and Seed Production Services which promote the production and distribution of improved seed.

The Division collaborates with various agencies in promotional work respecting seeds, feeding stuffs, fertilizers, pesticides, flax fibres, hay, and agricultural lime. Subsidies to the provinces for encouraging an increased and better use of agricultural lime are administered by the Division as well as a freight assistance policy on the movement of feed grain and wheat millfeeds from the Prairie Provinces to the East and to British Columbia.

Ottawa

Chief, Plant Products Division.....	G. S. Peart
Chief, Agricultural Inspection Services.....	W. R. White
Associate Chief, Agricultural Inspection Services (Seeds).....	A. Dumais
Associate Chief, Agricultural Inspection Services (Feeding Stuff).....	A. C. Heise
Associate Chief, Agricultural Inspection Services (Fertilizers).....	G. W. Michael
Associate Chief, Agricultural Inspection Services (Pest Control Products).....	P. M. Overholt
Administrative Officer (Feeding Stuff).....	C. R. Phillips
Administrative Officer (Pest Control Products).....	C. H. Jefferson
Chief, Seed Production.....	J. W. Mackay
Administrative Officer (Seed Production).....	H. R. Parnell
Chief, Laboratory Services.....	Dr. C. W. Leggatt
Associate Chief, Laboratory Services.....	G. A. Elliott
Seed Research Laboratory.....	E. J. Doyle
Superintendent of Chemical Laboratory.....	C. V. Marshall

Maritime Provinces

District Supervisor.....	J. G. Clark, Box 220, Sackville, N.B.
District Analyst.....	W. G. Sallans

Quebec

District Supervisor.....	R. L. Thomas, 1254 Bishop St., Montreal.
District Analyst.....	Vacant

Eastern Ontario

District Supervisor.....	J. A. Dawson, Science Service Bldg., Ottawa.
District Analyst.....	R. E. Wight

Western Ontario

District Supervisor.....	N. D. Mackenzie, 86 Collier St., Toronto.
District Analyst.....	Dr. B. F. Forward

Manitoba

District Supervisor.....	J. E. Blakeman, 730 Dominion Public Bldg., Winnipeg.
District Analyst.....	E. Robertson

Saskatchewan

District Supervisor.....	L. Bell, 523 Federal Building, Saskatoon.
District Analyst.....	Dr. R. A. Ingalls

Alberta

District Supervisor.....	C. A. Weir, Immigration Bldg., Calgary.
District Analyst.....	N. G. Lewis
Chemical Laboratory.....	U. P. Green

British Columbia

District Supervisor.....	C. T. Tapp, Postal Station "O", Vancouver.
District Analyst.....	C. B. W. Rogers

LIVESTOCK AND POULTRY DIVISION

The Livestock and Poultry Division administers the Livestock Pedigree Act and the Hatchery Approval section of the Livestock and Livestock Products Act; maintains the Record of Performance Service for Dairy Cattle and for Poultry, and the Advanced Registry Service for Swine; promotes the work of Advanced Registry Boards for Dairy Cattle and for Swine; administers sire assistance policies in relation to horses, cattle, sheep and swine; supports, under joint policies, boys' and girls' club work and livestock development projects in all provinces; administers assistance to fairs and exhibitions; and directs the co-ordination of federal and provincial departmental effort to improve quality and increase returns in livestock production.

Ottawa

Chief, Livestock and Poultry Division.....	A. W. Peterson
Chief, Livestock Production.....	J. W. Graham
Associate Chief, Livestock Production (Fairs and Exhibitions and Junior Clubs).....	E. F. Pineau
Assistant Chief, Livestock Production (Cattle).....	W. D. Davies
Assistant Chief, Livestock Production (Swine).....	J. G. Lefebvre
Assistant Chief, Livestock Production (Horses) and Chief Registration Officer.....	Dr. F. J. Leslie
Chief Record of Performance Inspector—Dairy Cattle.....	W. L. Graham
Assistant Chief R.O.P. Inspector—Dairy Cattle.....	J. A. Steele
Associate Chief, Poultry Production Services.....	G. R. Wilson
Geneticist, Poultry Production Service.....	A. T. Hill
Administrative Officer.....	P. J. Gilhooly

Prince Edward Island

Senior Livestock Fieldman..... H. W. Clay,
Box 489,
Charlottetown.

Poultry Fieldman..... C. Scranton,
Box 39,
Charlottetown.

New Brunswick

District Livestock Fieldman..... H. K. MacCharles,
(Nova Scotia and New Brunswick) Box 310,
Moncton.

Senior Poultry Fieldman..... A. C. Craft,
Silver Falls, R.R. No. 2,
Saint John.

Nova Scotia

Livestock Fieldman..... R. W. Nason,
C.N.R. Station Bldg.,
Truro.

Poultry Fieldman..... D. H. Borden,
Sheffield Mills.

Quebec

District Livestock Fieldman..... J. P. Fleury,
611 Shaughnessy Bldg.,
407 McGill Street,
Montreal.

Supervising Poultry Fieldman..... L. Foisy,
801 Shaughnessy Bldg.,
407 McGill Street,
Montreal.

Ontario

District Livestock Fieldman..... Wm. S. McMullen
6 Charles St. East,
Toronto 5.

Supervising Poultry Fieldman..... E. C. McMurtrie,
61 Victoria Street,
Toronto.

Manitoba

District Livestock Fieldman..... J. Norquay,
630 Dominion Public Bldg.,
Winnipeg.

Supervising Poultry Fieldman..... S. J. Ferns,
630 Dominion Public Bldg.,
Winnipeg.

Saskatchewan

District Livestock Fieldman..... J. H. Coles,
308 Post Office Bldg.,
Regina.

Supervising Poultry Fieldman..... G. A. Stratton,
1 Mitchell Block,
Regina.

Alberta

District Livestock Fieldman..... N. Curtis,
407 Blowey-Henry Bldg.,
Edmonton.

District Supervisor, Livestock Production..... Vacant
409 Dominion Public Bldg.,
Calgary.

Poultry Fieldman..... R. J. McVeeters,
304 Alberta Jasper Bldg.,
Edmonton.

British Columbia

Livestock Fieldman..... D. B. Young,
8-11 Macauley, Nicolls,
Maitland Building,
425 Howe Street,
Vancouver.

Supervising Poultry Fieldman..... A. J. Darbey,
2448 Cambie St.,
Vancouver.

MARKETING SERVICE

HEADQUARTERS: CONFEDERATION BLDG., OTTAWA

DIRECTOR—L. W. PEARSALL

Marketing Service is responsible for the administration of grading and inspection services covering livestock and livestock products, poultry, eggs, ranched fox furs, dairy products, fruit, vegetables, canned goods, maple products and honey, as well as departmental advertising. It brings under central control, all market reporting services for these commodities. The service to consumers deals particularly with graded products and their identification, and supplies information on the best methods of using Canadian foods, especially those which are in abundant supply. Associated as a fact-finding body in connection with the economics of marketing as well as of production is the Agricultural Economics Division.

ADMINISTRATION

Director.....	L. W. Pearsall
Assistant to Director.....	R. W. Neely
Accountant.....	J. Blackburn
Personnel Officer.....	T. B. G. Rankin

ADMINISTRATIVE DIVISION

This Division is responsible for the general administration of the Marketing Service and deals with matters of common concern to all Divisions, such as advertising, market information, consumer service, and the overseas office of the Agricultural Counsellor in London, England.

OVERSEAS OFFICE

The Agricultural Counsellor in London, England, and his staff keep a close check on the standards and quality of Canadian produce arriving in the United Kingdom, and keep Department officials informed on matters of this kind, especially the suitability of Canadian produce to meet the demands of the British consumer.

Agricultural Counsellor.....	J. G. Robertson, Canada House, London, England.
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MARKETS INFORMATION SECTION

This Section edits and publishes daily, weekly, monthly, and annual reports on the commercial marketings of livestock, dairy products and fruits and vegetables, on the domestic and export markets. Market comment and trends are noted and statistics on quality, prices, numbers, or amount are compiled and distributed to the various sections of the industry across Canada. Additional data in the form of special information is tabulated and assembled for the use of various committees and boards, or to meet specific enquiries from producers or others engaged in the marketing of farm products.

Chief, Markets Information.....	R. M. Scott
Assistant.....	P. A. Cossmann
Assistant.....	A. W. Ryan

CONSUMER SERVICE SECTION

The chief function of the Consumer Section is to further develop the domestic market for Canadian agricultural food products. Information on buying and using foods originating on Canadian farms is widely disseminated among consumers. From time to time, consumer food preferences and opinions are referred

to the branch of agriculture concerned. Grading and other regulations, governing the manufacture and sale of foods, that are under the jurisdiction of the Department are brought to public attention.

Chief, Consumer Section.....	Miss L. C. Pepper
Home Economist.....	Miss E. LeBlanc
Home Economist.....	Miss G. Gerlach
Home Economist.....	Miss H. P. Rouleau
Home Economist.....	Miss L. B. Newman
Home Economist.....	Miss P. P. Wardle
Home Economist.....	Miss B. Baird

TRANSPORTATION AND STORAGE SECTION

Matters relating to transportation and storage policy have been centralized in this Section. These include cargo inspection at Canadian and United Kingdom ports and the administration of the Cold Storage Act.

Ottawa

Chief, Transportation and Storage Section.....	Dr. G. B. Miller
Refrigeration Engineer.....	J. C. J. Lewis

Quebec

Senior Cargo Inspector.....	R. P. Spencer, 165 Common St., Montreal.
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United Kingdom

Senior Cargo Inspector.....	J. C. Williams, No. 1 London Bridge, London, S.W. 1.
Cargo Inspector.....	A. S. Appleby, Arkwood Lodge, Spital Rd., Bromborough, Cheshire.
Cargo Inspector.....	M. J. MacDonald, 10 Walson St., Uddingston, Lanarkshire.

AGRICULTURAL ECONOMICS DIVISION

The Economics Division serves as a fact-finding body in matters relating to production, marketing, and agricultural policies. Studies are carried on in farm management, land economics, farm finance, the marketing of farm products and factors affecting consumption. Detailed records are maintained on the operations of co-operative organizations, and agricultural policies and developments in other countries are kept under continuous review. The Division publishes the following periodicals: The Economic Annalist, the Current Review of Agricultural Conditions in Canada, and Agriculture Abroad.

Ottawa

Chief, Agricultural Economics Division.....	Dr. J. F. Booth
Co-ordination of Research	
Principal Economist.....	J. Coke

Prices and Policies

Principal Economist.....	Dr. A. E. Richards
Senior Economist.....	F. M. Schrader
Senior Economist.....	F. Shefrin
Associate Economist.....	F. Lawrence
Associate Economist.....	Dr. E. Jaska

Ottawa—Continued**Production Economics**

Principal Economist.....	Dr. S. C. Hudson
Senior Economist.....	A. Gosselin
Senior Economist.....	G. P. Boucher
Senior Economist.....	M. E. Andai
Associate Economist.....	H. W. Trevor
Assistant Economist.....	Dr. R. Choquette
Associate Economist.....	J. A. Dawson

Marketing Economics

Principal Economist.....	A. H. Turner
Senior Economist.....	E. P. Reid
Senior Economist.....	J. E. O'Meara
Associate Economist.....	R. E. F. Jones
Associate Economist.....	M. Rachlis
Assistant Economist.....	Miss C. I. Johnston
Assistant Economist.....	L. E. Drayton
Assistant Economist.....	G. A. O'Brien

Nova Scotia

Associate Economist.....	G. C. Retson, Dominion Economics Division, College of Agriculture, Truro.
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Manitoba

Economist.....	T. O. Riecken, Dominion Economics Division, 161 Vaughan St., Winnipeg.
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Saskatchewan

Economist.....	R. A. Stutt, Dominion Economics Division, University of Saskatchewan, Saskatoon.
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Alberta

Supervisor, Western Provinces Economist.....	Dr. C. C. Spence, Dominion Economics Division, University of Alberta, Edmonton.
Economist.....	G. Haase,

British Columbia

Economist.....	E. D. Woodward, Dominion Economics Division, University of British Columbia, Vancouver.
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DAIRY PRODUCTS DIVISION

The activities of this Division are conducted mainly under three heads. The Administrative Unit maintains supervision of all activities of the Division, and keeps in touch with developments of the dairy industry throughout the world. Markets and Merchandising Services render a variety of services to the industry in relation to the marketing of dairy products. A publication respecting dairying throughout the world is issued each month in conjunction with the Economics Division and enjoys a large circulation. The Grading and Inspection Services enforce the requirements of the Dairy Industry Act and Regulations, dealing with the manufacture and sale of dairy products and the grading of dairy produce. Dairy Produce Graders and Inspectors of Dairy Products are located in all provinces at convenient points, to perform the duties of grading and inspecting dairy products. Regulations under the Meat and Canned Foods Act, pertaining to concentrated milk products, are also administered by this unit.

Ottawa

Chief, Dairy Products Division.....	W. C. Cameron
Chief, Dairy Products Marketing and Merchandising....	Dr. H. A. Derby
Refrigeration Technician.....	R. C. Field
Chief, Dairy Products Grading and Inspection Services..	D. B. Goodwillie
Associate Chief, Dairy Products Grading and Inspection Services.....	D. M. Beattie
Associate Chief, Dairy Products Grading and Inspection Services.....	S. R. Howe
Senior Dairy Produce Grader.....	F. D. Murphy
Head Clerk.....	W. E. Browne

Newfoundland

Dairy Produce Grader.....	A. Ash, 123 Water Street, St. John's.
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Prince Edward Island

Dairy Produce Grader.....	W. F. Rogerson, Chappel Building, 163 Queen Street, Charlottetown.
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Nova Scotia

Dairy Produce Grader.....	R. M. MacLennan, 407 Dominion Public Bldg., Halifax.
Inspector of Dairy Products.....	Vacant 204 Cottage Road, Sydney.
Inspector of Dairy Products.....	G. W. Parker, 75 Church Street, Truro.

New Brunswick

Senior Dairy Produce Grader.....	J. C. M. Wallace, Fourth Floor, Dominion Public Bldg., Moncton.
Dairy Produce Grader.....	E. K. Bonnyman 227 Northumberland St., Fredericton.

Quebec

District Dairy Produce Grader.....	G. A. Bourbeau, 100 McGill Street, Montreal.
Senior Dairy Produce Grader.....	J. E. Quesnel
Senior Dairy Produce Grader.....	J. T. Lemay
Inspector of Concentrated Milk Plants.....	C. M. Bonin
Refrigeration Inspector.....	D. Fabien
Dairy Products Grader.....	J. Z. Gosselin, 61 Charest Boulevard, Quebec.
Inspector of Dairy Products.....	R. Bourbonnais, 214 St. Germain Street, Rimouski.
Inspector of Dairy Products.....	L. Levesque, P.O. Box 81, Chicoutimi.
Inspector of Dairy Products.....	R. Richard, P.O. Box 266, Noranda.
Inspector of Dairy Products.....	C. E. Lemay, P.O. Box 125, Hull.
Inspector of Dairy Products.....	H. Desfosses, 1990 Baillargeon St., Three Rivers.
Inspector of Dairy Products.....	R. Levesque, P.O. Box 12, St. Georges West, Co. Beauce.

Quebec—Continued

Inspector of Dairy Products.....	R. R. Lafleche, Apt. 3, 100 Courcellette St., Sherbrooke.
Inspector of Dairy Products.....	J. G. Millette, 293 Brock St., Drummondville.
Inspector of Dairy Products.....	E. L'Ecuyer, 107 Laval St., Granby.

Ontario

District Dairy Produce Grader.....	W. E. Brennan Kemptville.
Dairy Produce Grader in Charge.....	C. A. Loucks, Kemptville.
Dairy Produce Grader in Charge.....	R. H. Gillan, 6 McAnnany St., Belleville.
Senior Dairy Produce Grader.....	O. H. J. White, 21 Lombard St., Toronto.
Dairy Produce Grader in Charge.....	C. A. Morrison, 21 Lombard St., Toronto.
Dairy Produce Grader in Charge.....	R. J. Quinn, Room 22, Bank of Toronto, Chambers, London.
Inspector of Dairy Products.....	R. E. Carr, 507 Bank St., North Bay.
Inspector of Dairy Products.....	G. M. Borland, P.O. Box 339, Walkerton.
Inspector of Dairy Products.....	A. K. Stovell, 140 Balsam Ave. S., Hamilton.

Manitoba

Senior Dairy Produce Grader in Charge of Inspection Work.....	H. S. Anderson, 602 Dom. Public Bldg., Winnipeg.
Dairy Produce Grader in Charge.....	Jas. Adair, 602 Dom. Public Bldg., Winnipeg.

Saskatchewan

Dairy Produce Grader in Charge.....	G. L. Art, 7th and Halifax Sts., Regina.
Dairy Produce Grader in Charge.....	R. J. Carleton, 319 Federal Bldg., Saskatoon.
Dairy Produce Grader in Charge.....	L. H. Woodiwiss, Post Office Bldg., Yorkton.

Alberta

District Dairy Produce Grader.....	H. A. Mason, New Immigration Bldg., Edmonton.
Dairy Produce Grader in Charge.....	N. J. Strynadka, New Immigration Bldg., Edmonton.
Dairy Produce Grader in Charge.....	J. Keay, 530 Calgary Public Bldg., Calgary.

British Columbia

Senior Dairy Produce Grader in Charge.....	J. A. McManus, 502 Federal Bldg., Vancouver.
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FRUIT AND VEGETABLE DIVISION

The work of this Division is concerned mainly with administration of the Fruit, Vegetables and Honey Act; the Maple Products Industry Act, and the Processed Fruit and Vegetable Regulations under the Meat and Canned Foods Act. Under the administrative unit, three sections—Inspection, Canning, and Marketing—enforce this legislation.

Inspection—Fresh fruits and vegetables, domestic and imported, honey and maple products are inspected for grade, marking and packages at shipping point and destination, and inspection certificates are issued both as to grade and condition. Where inspectors are available, administrative inspections are made on local markets to check quality and condition.

Canning—Processed fruits and vegetables, domestic and imported, are inspected; labels therefor are approved; operations of registered establishments are supervised, and a check is made of sanitary conditions and grading of the pack as to quality.

Marketing—Interprovincial and international dealers and brokers are licenced to operate in fresh fruits and vegetables. Assistance is given to growers, growers' associations, and distributors in finding new markets and advising as to market conditions. This unit acts as operating section of the Agricultural Prices Support Board in fruits, vegetables and kindred products.

Ottawa

Chief, Fruit and Vegetable Division.....	R. L. Wheeler
Chief, Marketing and Merchandising.....	K. B. Conger
Assistant Chief, Marketing and Merchandising.....	E. G. Paige
Chief, Fruit and Vegetable Inspection.....	R. E. Robinson
Assistant Chief, Fruit and Vegetable Inspection.....	W. J. Coell
Inspection Services Assistant (Maple Products).....	C. T. Skinner
Inspection Services Assistant (Honey).....	F. R. Armstrong
Chief Canning Inspector.....	F. J. Perry
Inspection Services Assistant (Canning).....	J. J. Tofani

Prince Edward Island

District Inspector.....	C. E. Shaw, Peardon Bldg., P.O. Box 202, Charlottetown.
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Nova Scotia

District Inspector.....	L. V. Spinney, Dominion Public Bldg., Middleton.
Senior Inspector.....	C. W. Parker, P.O. Box 325, 401 Dominion Public Bldg., Halifax.

New Brunswick

District Inspector.....	W. R. Butland, East Florenceville.
Senior Inspector.....	W. L. Clark, Customs Bldg., Box 345, Saint John.

Quebec

District Inspector.....	W. B. H. Marshall, 100 McGill St., Montreal.
Supervising Inspector.....	C. E. Dionne, Box 157, Old P.O. Bldg., 3 Buade St., Quebec.

Ontario (East of Toronto)

District Inspector.....	C. W. Jackson, Trudeau Bldg., 35 Station St., Belleville.
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Ontario (Toronto and West)

District Inspector	E. A. Eardley, 43-44 Sun Life Bldg., P.O. Box 520, Hamilton.
Supervising Inspector	W. F. Graham, Excelsior Bldg., 59 Victoria St., Toronto 1.

Manitoba, Saskatchewan, and Alberta

District Inspector	P. W. Clement, 717 Dominion Public Bldg., Winnipeg.
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British Columbia

District Inspector	Wm. Read, Russel Bldg., 3105 Barnard Ave., Vernon.
Supervising Inspector	H. Platt, 802 Credit Foncier Bldg. Vancouver.

LIVESTOCK AND LIVESTOCK PRODUCTS DIVISION

This Division consists of three sections—Livestock, Poultry and Furs. It administers the Livestock and Livestock Products Act and engages in activities relating to the merchandising of livestock and poultry products and ranched furs.

The Livestock section administers regulations under the Act relating to the grading of hog, beef, lamb, mutton, and veal carcasses, export bacon, and wool, as well as the control of trading on stockyards. The stockyards and grading staffs are also responsible for assembling at central markets and packing houses information regarding volume of livestock sales, prices, and related information.

The Poultry Section administers regulations relating to the grading and inspection of eggs, poultry, frozen egg, and canned poultry. The senior officer at Ottawa and the District officers are also responsible for the direction of the poultry staff of the Production Service and for the administration of that section of the Act and regulations relating to poultry production.

The Fur Section administers regulations for the grading of ranched furs and engages in activities related to the merchandising and promotion of Canadian furs.

Ottawa

Chief, Livestock and Livestock Products Division	S. C. Barry
Chief, Livestock Grading	H. J. Maybee
Chief, Fur Inspection and Grading Services	W. M. Ritchie
Chief, Livestock Marketing	R. K. Bennett
Administrative Officers,	
Livestock Grading	F. F. Baird
Stockyards	C. C. Lyster
General	P. E. Light
Wool	J. B. Smith
Chief, Poultry Products Grading	A. D. Davey
Associate Chief	E. D. Bonnyman
Administrative Officers,	
General	J. F. Haggerty
Inspection	D. A. Fletcher

Prince Edward Island

District Inspector Poultry Products	F. M. Nash, Box 39, Charlottetown.
Livestock Products Grader	H. C. Heartz, P.O. Box 39, Charlottetown.
Fur Grader	D. W. Bell, Carleton.

Nova Scotia

Supervising Inspector Poultry Products.....C. M. MacMillan,
Box 891, Halifax.

New Brunswick

Senior Livestock Products Grader.....M. W. Chepesuik,
Box 310, Moncton.

Supervising Inspector Poultry Products.....A. C. McCulloch,
Box 988, Fredericton.

Quebec

District Supervisor, Livestock Marketing.....G. Rodrigue,
316 Bridge St., Montreal.

Senior Livestock Products Grader.....J. A. Marcoux,
c/o Legrade Inc.,
1 D'Estimauville St.,
Quebec.

District Inspector Poultry Products.....N. Henault,
801 Shaughnessy Bldg.,
Montreal.

Supervising Inspector, Poultry Products.....J. A. LaHaye,
Box 38, Uptown,
Post Office Bldg.,
Quebec.

Senior Fur Grader.....H. J. Anderson,
Room 315, Post Office Bldg.,
131 St. James St., W.,
Montreal.

Ontario

District Supervisor, Livestock Marketing.....E. Senn,
59 Victoria Street,
Toronto.

District Inspector Poultry Products.....A. F. Curran,
61 Victoria St.,
Toronto 1, Ont.

Supervising Inspector, Poultry Products.....E. R. Hooey,
Box 482, London.

Supervising Inspector, Poultry Products.....F. G. Ward,
Room 1, 88 Lyon St.,
Ottawa.

Fur Grader.....Wm. Newey,
61 Victoria St.,
Toronto 1.

Manitoba

District Supervisor, Livestock Marketing.....L. Hancock,
Room 630,
Dominion Public Bldg.,
Winnipeg.

District Inspector Poultry Products.....A. F. Darnell,
Room 632,
Dominion Public Bldg.,
Winnipeg.

Fur Grader.....D. A. MacLachlan,
Room 630,
Dominion Public Bldg.,
Winnipeg.

Saskatchewan

District Supervisor, Livestock Marketing.....A. D. Munro,
Union Stock Yards,
Saskatoon.

Senior Supervisor, Livestock Marketing.....J. Leask,
S. Sask. Co-op.
Stockyards,
Moose Jaw.

Stockyard Agent.....J. H. Kezar,
N. Sask. Co-op.
Stockyards,
Prince Alberta.

Saskatchewan—Continued

Livestock Products Grader	J. F. George, 308 Post Office Bldg., Regina.
District Inspector Poultry Products.....	H. Cochrane, Mitchell Bldg., Regina.
Supervising Inspector, Poultry Products.....	T. J. Adam, 232 Federal Bldg., Saskatoon.

Alberta

District Supervisor, Livestock Marketing.....	J. L. Pawley, 409 Edmonton Public Bldg., Edmonton.
Senior Livestock Products Grader.....	W. G. Dunsmore, 308 Stockyards Bldg., Calgary.
Livestock Products Grader	R. C. Trimble, Alberta Stockyards, Lethbridge.
District Inspector Poultry Products.....	L. F. Dawes, 415 Edmonton Public Bldg., Edmonton.
Supervising Inspector, Poultry Products.....	E. V. Smith, 2 Immigration Bldg., Calgary.

British Columbia

District Inspector Poultry Products.....	D. L. Browne Box 128, Vancouver.
Livestock Products Grader	H. L. Ford, Box 128, Vancouver.
Fur Grader.....	N. L. Boyd, 1370 Richards St., Vancouver.

SPECIAL ACT ADMINISTRATIONS**PRAIRIE FARM REHABILITATION ADMINISTRATION**

The Prairie Farm Rehabilitation Act, commonly called "P.F.R.A.", was passed by the Parliament of Canada in 1935 to provide federal assistance in rehabilitating agriculture in the low rainfall areas of the three Prairie Provinces.

The Act, as first passed, provided assistance in water development and cultural work including soil drift control, and in 1937 the scope of the Act was extended to include land utilization and provide for rehabilitation on a community basis by building community pastures on sub-marginal lands and establishing farmers elsewhere. At present all cultural activities are carried on through the Experimental Farms Service, while all of the water development and land utilization activities are directed through the Prairie Farm Rehabilitation Service with headquarters at Regina, Saskatchewan. The field staff employed on these two phases of P.F.R.A. in the three provinces is supervised from the Regina office though in the case of small water developments a part of the engineering staff, in each province, works directly under the provincial water rights office. This arrangement was made in order to facilitate the work in connection with the authorization of projects under provincial statute.

Administration (Regina)

Director.....	Dr. L. B. Thomson
Chief Engineer.....	G. L. MacKenzie
Assistant Chief Engineer.....	G. N. Munro
Superintendent Water Development.....	E. L. Gray
Superintendent Community Pastures.....	R. H. L. Youngman

Administration (Ottawa)

Associate Director.....G. J. Matte

PRAIRIE FARM ASSISTANCE ADMINISTRATION

The Prairie Farm Assistance Act, which provides for benefit payments to farmers of the Prairie Provinces, in townships having low crop yields because of drought, insect damage and other causes, is administered by a Director of Prairie Farm Assistance whose headquarters are at Regina. There is a branch office at Edmonton, from which much of the administrative work for Alberta is carried out and local offices are maintained at Medicine Hat, Lethbridge, Calgary and Winnipeg. A staff of Inspectors is employed in each province, varying in size according to the immediate needs of the Prairie Farm Assistance program. There are eleven full time Supervisors in charge of the field work.

Administration (Regina)Director of Prairie Farm Assistance.....R. F. McGregor
Administrative Assistant.....G. L. Bruce**Alberta (Edmonton)**

Superintendent.....L. H. S. Rowbotham

Administration (Ottawa)

Associate Director.....G. J. Matte

MARITIME MARSHLAND REHABILITATION ADMINISTRATION

The Maritime Marshland Rehabilitation Act was passed in 1948 and provides for the undertaking of a program of reclamation and development of the marshlands in Nova Scotia, New Brunswick, and Prince Edward Island.

Under the Act the Federal Government will construct and reconstruct the necessary dykes, aboiteaux, and breakwaters, using modern heavy equipment; and the other work, such as drainage and proper land use, will be the responsibility of the provinces and the marsh owners.

Administrative offices have been established at Amherst, N.S., where engineering and construction crews make their headquarters under the supervision of the Director.

Administration (Amherst)Director.....J. S. Parker
Chief Engineer.....J. D. Conlon**Administration (Ottawa)**

Associate Director.....G. J. Matte

AGRICULTURAL PRICES SUPPORT BOARD

This Board administers the Agricultural Prices Support Act which provides for assistance in the orderly adjustment of supply-demand relationships in marketing agricultural products. The following are the members of the Board:

A. M. Shaw.....Chairman
S. J. Chagnon.....Vice-Chairman
A. H. Turner.....Member and Secretary-
Manager.

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